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From:

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Subject:

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Duffy, Patricia

Saturday, March 31, 2007 11:32 AM

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STIC-Biotech/ChemLib

SPDI search

IN RE:10/063,546

SPDI search SEQ ID NO:38 commercial and interference.

Thanks.

Patricia A. Duffy, Ph.D.
Primary Patent Examiner
571-272-0855,
Remsen 3B05,
Mailbox: 3C18

1645

Searcher Prep Time:___ Online Time:____

Jenso 1

Type of Search

NA#______ AA#:_____

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Q9PU71_XENIA
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Q9Z159 PETMA
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RESULT 1
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AC QGUMH9
DT 05-JUL-2004, sequence version 1.
DT 05-JUL-2004, sequence version 1.
DT 05-JUL-2004, sequence version 14.
DE ELGC699.
GN QROMAN-2006, entry version 14.
DE ELGC699.
GN CREMENSEUNQ699;
OS Homo sapiens (Human).
OC ELMAY-2006, sentry version 14.
DE CGC299.
OK ROMANAIA; Metazoa; Chordata; Craniata; Vertebrat CC Mammalia; Eutheria; Euarchontoglires; Primates; Pro C Catarrhini; Hominides; Homo.
OX NCBI TaxID=9606;
RN NUCLECTIDE SEQUENCE.
RA MEDILME=22897296; PubMed=12975309; DOI=10.1101/gr
RA CLark H.F., Gurney A.L., Abaya E., Baker K., Bail RA Clark H.F., Gurney A.L., Abaya E., Baker K., Bail RA Clark H.F., Gurney A.L., Abaya E., Baker K., Bail RA Clark H.F., Gurney A.L., Abaya E., Baker K., Bail RA Clark H.F., Gurney A.L., Abaya E., Baker K., Bail RA Clark H.F., Gurney A.L., Abaya E., Baker K., Bail RA Clark H.F., Gurney A.L., Abaya E., Baker K., Bail RA Clark H.F., Gurney A.L., Abaya E., Baker K., Bail RA Clark H.F., Gurney A.L., Abaya E., Baker K., Bail RA Clark H.F., Gurney A.L., Abaya E., Baker K., Bail RA Clark H.F., Gurney A.L., Abaya E., Baker K., Bail RA Clark H.F., Gurney A.L., Abaya E., Baker K., Bail RA Clark H.F., Gurney A.L., Abaya E., Baker K., Bail RA Clark H.F., Gurney A.L., Abaya E., Baker K., Bail RA Clark H.F., Gurney A.L., Abaya E., Baker K., Bail RA Clark H.F., Gurney A.L., Abaya E., Baker K., Bail RA Clark H.F., Gurney A.L., Abaya E., Baker K., Bail RA Clark H.F., Gurney A.L., Abaya E., Baker K., Bail RA Clark H.F., Gurney A.L., Abaya E., Baker K., Bail RA Clark H.F., Gurney A.L., All RA Clark H.F., Gurney J., Gray A.M., RA Yansura D.G., Yi S., Yu G., Yuan J., Zhang M., Zhang M.,
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WEDLINB=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;

WEDLINB=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;

WA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D.T., Brush J.,

A Clark H.F., Gurney C., Crowley C., Currell B., Deuel B., Dowd P.,

RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,

A Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,

A Raton D., Foster J.S., Grimaldi C., Gu Q., Hass P.E., Heldens S.,

A Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,

A Lewis L., Liao D., Mark M.R., Robbie E., Sanchez C., Schoenfeld J.,

Seshagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,

Vandlen R.L., Wacanabe C., Wieand D., Woods K., Xie M.-H.,

A Vansura D.G., Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A.D.,

Wood W.I., Godowski P.J., Gray A.M.;

"The secreted protein discovery initiative (SPDI), a large-scale

"The secreted protein discovery initiative (SPDI), a large-scale

effort to identify novel human secreted and transmembrane proteins: a

RT bioinformatics assessment.";

Genome Res. 13:2265-2270(2003).
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15-FEB-2005, integrated into UniProti
15-FEB-2005, sequence version 1.
02-MAY-2006, entry version 7.
Hypothetical protein DKFZp667H2312.
Name=DKFZp667H2312;
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SEQUENCE
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Eukaryota; Metazoa; Cho
Mammalia; Eutheria; Eua
Catarrhini; Hominidae;
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; EGF 2; 1.
; EGF 3; 1.
; SUSHI; 2.
; TRYPSIN DOM;
A; 80199 MW;
        Chordata; Craniata; Vertebrata; Euteleostomi; Euarchontoglires; Primates; Haplorrhini;
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                                               SSPCFHDGTCVLDKAGSYKCACLAGYTGQRCENLLEERNCSDPGGPVNGYQKITGGPGLI
                                                                           YVEVRDGDNRDGQIIKRVCGNERPAPIQSIGSSLHVLFHSDGSKNFDGFHAIYEEITACS
PMQVQSRETPLHQLYSAAFSKQKLQSAPTKKPALPFGDLPMGYQHLHTQLQYECISPFYR
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Indels

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Gaps

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360 360 240 180 180 120 120

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Ensemblic ENSGGGOOO14900; Homo sapiens.
GO; GO:0004552; F:serine-type endopeptidase ac
GO; GO:0006508; P:proteolysis; IEA.
InterPro; IPR000859; CUB.
InterPro; IPR000742; EGF
InterPro; IPR001032; EGF
InterPro; IPR001034; Peptidase_S1_S6.
InterPro; IPR00124; Peptidase_S1_S6.
InterPro; IPR00124; Peptidase_S1_S6.
InterPro; IPR00134; Peptidase_S1_S6.
InterPro; IPR00134; Peptidase_S1_S6.
InterPro; IPR00134; Sushi_SCR_CCP.
Pfam; PF00431; CUB; 1.
Pfam; PF000048; EGF; 1.
Pfam; PF000089; Trypsin; 1.
PFAM; FF00089; Trypsin; 1.
PFAM; SM00032; CCB; 2.
SWART; SM00032; CCB; 2.
SWART; SM00032; CCB; 1.
SWART; SM00181; EGF; 2.
SWART; SM000181; EGF; 2.
SWART; SM000181; EGF; 1.
PROSITE; PS01086; EGF_1; 1.
PROSITE; PS01086; EGF_1; 1.
PROSITE; PS01086; EGF_2; 1.
PROSITE; PS01086; EGF_3; 1.
PROSITE; PS01087; E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUCLEOTIDE SEQUENCE.
TISSUE-Lymph node;
The German cDNA Consortium;
Koehrer K., Beyer A., Mewes H.
Fobo G., Han M., Wiemann S.;
Submitted (JAN-2005) to the EM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AL832391; CAI46203.1;
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the Creative Commons
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                                            99.9%;
Score 3941; D
Pred. No. 7.7e
1; Mismatches
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Attribution-NoDerivs License
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OR RESULT.

100 NO 62-7

100 NO
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GO; GO:0004252; F:serine-type endopeptidase ac

GO; GO:0006508; P:proteolysis; IEA.

InterPro; IPR00059; CUB.

InterPro; IPR006209; EGF.

InterPro; IPR006742; EGF.

InterPro; IPR006709; EGF.

InterPro; IPR013032; EGF.

InterPro; IPR013032; EGF.

InterPro; IPR001314; Peptidase S1 S6.

InterPro; IPR001314; Peptidase S1 S6.

InterPro; IPR0001314; Peptidase S1 S6.

InterPro; IPR001314; Sushi_SCR_CCP.

Pfam: PF00431: CUB: 1
InterPro; IPR001314; Peptidase S
InterPro; IPR000436; Sushi_SCR_C
Pfam; PF000431; CUB; 1.
Pfam; PF000084; EGF; 1.
Pfam; PF000084; Sushi; 2.
Pfam; PF00089; Trypsin; 1.
PRRNTS; PR00722; CHYMOTRYPSIN.
SMART; SM00032; CCP; 2.
SMART; SM00032; CCP; 2.
SMART; SM00042; CUB; 1.
SMART; SM000181; EGF; 2.
SMART; SM00020; Tryp_SPC; 1.
PROSITE; PS01180; CUB; 1.
PROSITE; PS01180; CUB; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            05-JUL-2004, integrated into UniProtKB/TrEMBL.
05-JUL-2004, sequence version 1.
02-MAY-2006, entry version 14.
Hypothetical protein DKFZp686N24154.
Name=DKFZp686N24154;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TISSUE=Colon endothel;
The German cDNA Consortium;
Koehrer K., Beyer A., Mewes H.W., Weil B.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                QEN062 HUMAN
Q6N062;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Fobo G., Han M., Wiemann S.; Submitted (SEP-2004) to the EMBL/GenBank/DDBJ databases.
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NCBI_TaxID=9606;
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Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
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Best Local Similarity 99.7%;
Matches 718; Conservative
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PROSITE; PS50026; EGF_3; 1.
PROSITE; PS50923; SUSHI; 2.
PROSITE; PS50240; TRYPSIN_DOM; 1
Hypothetical protein.
SEQUENCE 720 AA; 80197 MW; E
                                         Q5EBL7 HUMAN PRELIMINARY; PRT; 737 AA. Q5BBL7; Q5EBL7; 15-MAR-2005, integrated into UniProtKB/TrEMBL. 15-MAR-2005, sequence version 1. 18-APR-2006, entry version 10. 18-APR-2006, entry version 10. Regeneration associated muscle protease, isoft Name-DKFZP586H2123; Homo sapiens (Human).
                   Eukaryota; Metazoa;
Mammalia; Eutheria;
 Catarrhini; Hominidae;
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HUMAN
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                     Chordata; Craniata
Euarchontoglires;
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Pred. No. 1.8e
1; Mismatches
                                     Craniata;
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                     a; Vertebrata; Euteleos
Primates; Haplorrhini;
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                                                                                               isoform
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VVGYTIPCCRNEENECDSCLIHPGCTIFENCKSCRNGSWGGTLDDFYVKGFYCAECRAGW
                                                                                                                                                                                                                                                           CTAEAGGIAAVSFPGRASPEPRWHLMGLVSWSYDKTCSHRLSTAFTKVLPFKDWIERNMK
                                                                                                                                                                                                                                                                                CTAETGGIAAVSFPGRASPEPRWHLMGLVSWSYDKTCSHRLSTAFTKVLPFKDWIERNMK
                                                                                                                                                                                                                                                                                                                                   WNVLADVRSPGFKNDTLRSGVVSVVDSLLCEEQHEDHGIPVSVTDNMFCASWEPTAPSDI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           YVEVRDGDNRDGQIIKRVCGNERPAPIQSIGSSLHVLFHSDGSKNFDGFHAIYEEITACS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VVGYTIPCCRNEENECDSCLIHPGCTIFENCKSCRNGSWGGTLDDFYVKGFYCAECRAGW
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PMQVQSRETPLHQLYSAAFSKQKLQSAPTKKPALPFGDLPMGYQHLHTQLQYECISPFYR
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CTISUE-Chordosarcoma Lung Metastasis;

XX MEDLINE-22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;

X3 Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

X4 Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

X5 Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

X6 Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

X7 Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

X8 Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

X8 Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hong L.,

X8 Altschenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

X9 Altschenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

X9 Altschenko L., Marusina K., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

X9 Altschenko L., Mosares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

X9 Altschenko L., Wolellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

X9 Altschenko L., Wolellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

X9 Altschenko L., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

X9 Altschul S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

X9 Villalon D.K., Muzny D.M., Sodergren E.J., Lu, K., Gibbs R.A.,

X9 Altschul S., Worley K.C., Hale S., Garcia A.M., Gabbs R.A.,

X9 Altschul R., Wolley R.C., Shevchenko Y., Bouffard G.G.,

X9 Altschul R., Wolley R.W., Touchman J.W., Green E.D., Dickson M.C.,

X9 Altschul R.W., Touchman J.W., Green E.D., Dickson M.C.,

X9 Altschul R.W., Sodergren S.J.M., Marra M.A.;

X1 "Generation and initial analysis of more than 15,000 full-length human

X1 and mouse cDNA secuences."
                                            Query Match
Best Local Sim:
Matches 720;
                                                                                                                                                               GO; GO:0008233; F:peptidase activity; II
GO; GO:0004252; F:serine-type endopeptid
GO; GO:0006208; P:proteolysis; IEA.
InterPro; IPR000859; CUB.
InterPro; IPR000859; CUB.
InterPro; IPR0006210; EGF_1ike.
InterPro; IPR0006209; EGF_1ike.
InterPro; IPR0013032; EGF_1ike.
InterPro; IPR001303; EGF_1ike.
InterPro; IPR001254; Peptidase_S18.
InterPro; IPR001254; Peptidase_S18.
InterPro; IPR001254; Peptidase_S18.
InterPro; IPR001314; Peptidase_S18.
InterPro; IPR001314; Peptidase_S18.
InterPro; IPR001314; Peptidase_S18.
InterPro; IPR000131; CUB; 1.
Pfam; PP00088; EGF; 1.
Pfam; PP00088; EGF; 1.
PRINTS; PR00722; CHYMOTRYPSIN.
SMART; SM00042; CUB; 1.
SMART; SM00018; EGF; 2.
SMART; SM00018; EGF; 1.
PROSITE; PS01186; EGF_2; 1.
PROSITE; PS01186; EGF_2; 1.
PROSITE; PS01186; EGF_3; 1.
PROSITE; PS0126; EGF_3; 1.
PROSITE; PS01276; EGF_3; 1.
PROSITE; PS0128; SUSHI; 2.
PROSITE; PS0128; SUSHI; 2.
PROSITE; PS0128; SUSHI; 2.
PROSITE; PS0234; SUSHI; 2.
PROSITE; PS02340; TRYPSIN_DOM; 1.
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Ensembl;
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Director MGC Project;
Submitted (FEB-2005) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               UniGene;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Copyrighted Distributed
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GO:0008233; F:peptidase activity; IEA. GO:0004252; F:serine-type endopeptidase GO:0006508; P:proteolysis; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             mouse cDNA sequences.";
c. Natl. Acad. Sci. U.S.
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                                                                 Similarity
MELGCWTQLGLTFLQLLLISSLPREYTVINEACPGAEWNIMCRECCEYDQIECVCPGKRE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ENSG00000149090;
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                                                                                                                                        737
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                                            Conservative
                                                                                                                                     AA,
                                                                                                                                     81943 MW;
                                                                 99.5%;
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                                            0
                                       Score 3926.5;
Pred. No. 9.8e
0; Mismatches
                                                                                                                                   FD3BACCFE47778FE CRC64;
                                                                 .8e-287;
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60
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PARA NO PLANTAGE AND PARA SECURIO PARA SECU
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W2 HUMAN
PRELIMINARY; PRT; 737 AA.
Q95GW2;
Q1-DEC-2001, integrated into UniProtKB/TrEMBL.
Q1-DEC-2001, sequence version 1.
Q2-MAY-2006, entry version 25.
CDNA FLJ14935 fis, clone PLACE1009992, weakly similar to LIMULUS CLOTTING FACTOR C (EC 3.4.21.84).
TISSUE=Placenta;
PubMed14702039; DOI=10.1038/ng1285;
Ota T., Sugiyama T., Irie R.,
Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R.,
Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H.,
Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S.,
                                                                                                                                                                                                                         Mammalia; Eutheria; Euarchontoglires; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                            Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                       Homo sapiens (Human)
                                                                                                                                           NUCLEOTIDE SEQUENCE
                                                                                                                                                                                              NCBI_TaxID=9606;
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RA Yamamoto J., Saito K., Kawai Y., Isono Y., Nakamura Y., Nagahari K.,
RA Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M., Shiratori A.,
RA Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M.,
RA Takahashi M., Kanda K., Yokoi T., Puruya T., Kikkawa E., Omura Y.,
RA Abe K., Kamihara K., Katsuta N., Sato K., Tanikawa M., Yamazaki M.,
RA Ninomiya K., Ishibashi T., Yamashita H., Murakawa K., Pujimori K.,
RA Ono Y., Takiguchi S., Watanabe M., Hiraoka S., Chiba Y., Ishida S.,
RA Ono Y., Takiguchi S., Watanabe M., Hiraoka S., Chiba Y., Ishida S.,
RA Togiya S., Komai F., Hara R., Takeuchi K., Arita M., Imose N.,
RA Togiya S., Komai F., Hara R., Takeuchi K., Arita M., Imose N.,
RA Yoshikawa Y., Matsunawa H., Ichihara T., Shiohata N., Sano S.,
RA Moriya S., Momiyama H., Satoh N., Takami S., Terashima Y., Suzuki O.,
RA Moriya S., Momiyama H., Satoh N., Takama S., Takemoto M., Kawakami B.,
RA Mishigaki H., Watanabe T., Sugiyama A., Takemoto M., Kawakami B.,
RA Hishigaki M., Watanabe T., Sugiyama A., Takemoto M., Kawakami B.,
RA Fujimori Y., Komiyama M., Tashiro H., Tanigami A., Fujiwara T.,
RA Ono T., Yamada K., Fujii Y., Ozaki K., Hirao M., Ohmori Y.,
RA Ono T., Yamada K., Fujii Y., Ozaki K., Hirao M., Ohmori Y.,
RA Okitani R., Kawakami T., Noguchi S., Itoh T., Shigeta K., Senba T.,
RA Mizushima-Sugano J., Satoh T., Shirai Y., Nakagawa K.,
RA Okumura K., Nakajina Y., Mizuno T., Morinaga M., Sasaki M.,
RA Okumura K., Nagase T., Nomura N., Kikuchi H., Masuho Y., Yamashita R.,
RA Complete sequencing and characterization of 21,243 full-length human
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                                                                                              Query Match
Best Local Sim
Matches 719;
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GO; GO:0006508; P:proteolysis; IEA.
InterPro; IPR00859; CUB:
InterPro; IPR008210; EGF.
InterPro; IPR006210; EGF.
InterPro; IPR006209; EGF_like_reg.
InterPro; IPR01303; EGF_like_reg.
InterPro; IPR01303; Pept_Ser_Cys.
InterPro; IPR0031314; Peptidase_S1_S6.
InterPro; IPR000431, Sushi_SCR_CCP.
InterPro; IPR000436; Sushi_SCR_CCP.
                                                                                                                                                        Pfam; PF00431; CUB; 1.

Pfam; PF00008; EGF; 1.

Pfam; PF00008; Sushi; 2.

Pfam; PF00089; Trypshi; 1.

Pfam; PF00089; Trypshi; 1.

PRINTS; PR00722; CHYMOTRYPSIN.

SMART; SM00032; CCP; 2.

SMART; SM00032; CCB; 1.

SMART; SM000181; EGF; 2.

SMART; SM00020; Tryp SPC; 1.

PROSITE; PS01180; CUB; 1.

PROSITE; PS01180; EGF—1; 1.

PROSITE; PS01186; EGF—2; 1.

PROSITE; PS01186; EGF—2; 1.

PROSITE; PS0126; EGF—3; 1.

PROSITE; PS50240; TRYPSIN DOM; 1

SEQUENCE 737 AA; 81953 MW; 41
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VVGYTIPCCRNEENECDSCLIHPGCTIFENCKSCRNGSWGGTLDDFYVKGFYCAECRAGW 120
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                             MELGCWTQLGLTFLQLLLISSLPREYTVINEACPGAEWNIMCRECCEYDQIECVCPGKRE
                                                                                               Conservative
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The German cDNA Consortium, Ottenwaelder B., Obermaier B., Deutschenbaur S., Schaipp Mewes H.W., Weil B., Amid C., Osanger A., Fobo G., Han M. Submitted (NOV-2004) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                               Name Programme (Orangutan).
Pongo yegmaeus (Orangutan).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Metazoa; Chordata; Craniata; Primates; Haplorrhini;
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                       Consortium, see http://www.uniprot.org/terms
                                                                                  , Schaipp A.
G., Han M.,
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GG; GG:0004255; F; serine-type endopeptid
GG; GG:0006508; P; protecolysis; IEA.
InterPro; IPR000859; CUB.
InterPro; IPR000742; EGF 3.
InterPro; IPR006209; EGF 1ike.
InterPro; IPR006209; EGF 1ike.
InterPro; IPR001303; EGF 1ike.
InterPro; IPR001303; EGF 1ike.
InterPro; IPR001314; Peptidase_S1A.
InterPro; IPR00131; CUB; 1.
Pfam; PF000043; SUSHi 2.
Pfam; PF00008; EGF; 1.
Pfam; PF00008; SUSHi 2.
SMART; SM00108; EGF; 1.
SMART; SM00108; EGF; 1.
SMART; SM00108; EGF; 1.
PROSITE; PS01180; CUB; 1.
PROSITE; PS01180; CUB; 1.
PROSITE; PS01180; EGF; 1.
PROSITE; PS01186; EGF 1; 1.
PROSITE; PS01186; EGF 1; 1.
PROSITE; PS0126; EGF 1; 1.
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                                                             HKGAWFLVCSGALVNERTVVVAAHCVTDLGKVTMIKTADLKVVLGKFYRDDDRDEKTIQS
                                                                                                                               PMQVQSRETPLHQLYSAAFSKQKLQSAPTKKPALPFGDLPMGYQHLHTQLQYECISPFYR
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Eukaryota; Metazoa; Chordata; Craniat.
Mammalia; Eutheria; Laurasiatheria; Ct
Pecora; Bovidae; Bovinae; Bos.
NCBI TaxID=9913;
MEROPS; SO1.998; -

MEROPS; SO1.998; -

GO; GO:0008233; F:peptidase activity; IE

GO; GO:0004255; F:serine-type endopeptid

GO; GO:0006509; P:protecolysis; IEA.

InterPro; IPRO06210; EGF

InterPro; IPRO06210; EGF

InterPro; IPRO06209; EGF like.

InterPro; IPRO06209; EGF like.

InterPro; IPRO13032; EGF like.reg.

InterPro; IPRO13032; EGF like.reg.

InterPro; IPRO1304; EGF like.reg.

InterPro; IPRO1314; Peptidase S1 S6.

InterPro; IPRO01314; Peptidase S1 S6.

InterPro; IPRO00436; Sushi SCR_CCP.

Pfam; PF000431; CUB; 1.

Pfam; PF000084; Sushi; 2.

Pfam; PF000087; Trypsin; 1.

Pfam; PF000087; Trypsin; 1.

PRINTS; PR000722; CHYMOTRYPSIN.

SMART; SM000042; CUB; 1.

SMART; SM000042; CUB; 1.

SMART; SM000041; EGF; 2.

SMART; SM000041; EGF; 2.

SMART; SM000041; EGF; 2.

SMART; SM000041; EGF; 1.
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SPP5 BOVIN

QESPP5 BOVIN PRELIMINARY; PR:
QESPP5;
115-MAR-2005, integrated into Unil
15-MAR-2006, sequence version 1.
18-APR-2006, entry version 8.
Regeneration associated muscle pi
Name=DKFZP586H2123;
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Submitted
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MEDLINE=21180013; PubMed=11282978; DOI=10.1101/gr.170101;

Smith T.P.L., Grosse W.M., Freking B.A., Roberts A.J., Stone R.,

Casas E., Wray J.E., White J., Cho J., Fahrenkrug S.C., Bennett
Heaton M.P., Laegreid W.W., Rohrer G.A., Chitko-McKown C.G.,

Pertea G., Holt I., Karamycheva S., Liang F., Quackenbush J.,

Keele J.W.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EMBL; BT020875;
UniGene; Bt.602:
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Distributed
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Harhay G.P., Sonstegard T
Snelling W.M., Weidmann R
"Sequencing and analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Sequence evaluation of four pooled-tissue libraries and construction of a gene index Genome Res. 11:626-630(2001).
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ne; Bt.6021; -
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n R.T., Smith T.P
is of Bos taurus
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Best Local !
                                       QBBU25 MOUSE PRELIMINARY; 1
QBBU25;
QBBU25;
Q1-MAR-2003, integrated into Un
01-MAR-2003, sequence version :
18-APR-2006, entry version 27.
2 days neonate thymus thymic of
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PROSITE;
PROSITE;
PROSITE;
PROSITE;
domain, Sushi domain ,
trypsin family domain
Name=E430002G05Rik;
                             library,
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PS01186;
PS50026;
PS50923;
PS50240;
                 eonate thymus thymic cells cDNA, RIKEN clone:E430002G05 product:hypothetical Sushi domain / SCR repeat / CCP module
                                                                                                                                                                                            WNVLADVRSPGFKNDTLRSGVVSVVDSLLCEEQHEDHGIPVSVTDNMFCASWEPTAPSDI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                SSPCFHDGTCLLDSTGSYKCACLAGYTGKHCENLLEERNCSDPGGPVNGYKKITGGPGLI
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Pred. No. 2.4e
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RN NUCLEOTIDE SEQUENCE.

RC STRAIN-MOD; TISSUB-Thymus;

RC STRAIN-MOD; TISSUB-Thymus;

RC STRAIN-MOD; TISSUB-Thymus;

RC STRAIN-MOD; TISSUB-Thymus;

RC Carminci P., Kasukawa T., Katayama S., Gough J., Frith M.C., Maeda N.,

Carminci P., Kasukawa T., Katayama S., Gough J., Frith M.C., Maeda N.,

Carminci P., Kasukawa T., Katayama S., Gough J., Frith M.C., Maeda N.,

Carminci P., Kasukawa T., Katayama S., Gough J., Er., Shimokawa K.,

RA Davis M.J., Wilming L.G., Aidinis V., Allen J.E.,

RA Davis M.J., Wilming L.G., Aidinis V., Allen J.E.,

RA Davis M.J., Wilming L.G., Aidinis V., Allen J.E.,

RA Davis M.J., Wilming L.G., Aidinis V., Allen J.E.,

RA Crowe M.L., Choudhary V., Christoffels A., Clutterbuck D.R.,

RA Crowe M.L., Dalla E., Dalrymple B.P., de Bono B., Della Gatta G.,

RA Crowe M.L., Dalla E., Dalrymple B.P., de Bono B., Della Gatta G.,

RA Crowe M.L., Dalla E., Dalrymple B.P., de Bono B., Della Gatta G.,

RA Crowe M.L., Dalla E., Dalrymple B.P., de Bono B., Della Gatta G.,

RA Crowe M.L., Dalla E., Dalrymple B.P., de Bono B., Della Gatta G.,

RA Crowe M.L., Dalla E., Dalrymple B.P., de Bono B., Della Gatta G.,

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RA Crowe M.L., Dalla E., Dalrymple B.P., de Bono B., Della Gatta G.,

RA Crowe M.L., Dalla E., Dalrymple B.P., de Bono B., Della Gatta G.,

RA Crowe M.L., Choldary V., Christoffels A., Relso J., Kitamata H.,

RA Kutano M., Kawasawa Y., Kelso J., Kitamata H.,

RA Kurochkin I.V., Lareau L.F., Lazarevic D., Lipovich L., Liu J.,

RA Kutano M., Matsuzawa S., Makan Babu M., Madera M., Marchionni L.,

RA Kutano M., Matsuzawa S., Red J.F., Ring B.Z., Ringwald M.,

RA Kutano M., Matsuzawa S., Red J.F., Ring B.Z., Ringwald M.,

RA Kutano M., Salzberg S.L., Sandelin A., Schneider C.,

RA Petrovsky N., Piazza S., Repple C.A., Seno S., Sessa L., Sheng Y.,

RA Crowe M.L., Salzberg S.L., Sandelin A., Schneider C.,

RA Crowe M.L., Salzberg S., Les G., Red J.F., Ring S.Z., Ringuald M.,

RA Crowe M.L., Salzberg S., Red J.F., Ring S.Z., Ringuald
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STRAIN=NOD, TISSUE=Tnymus;
MEDLINE=99279253; PubMed=10349636; DOI=10.10.
Carninci P., Hayashizaki Y.;
"High-efficiency full-length cDNA cloning.";
"arthods Enzymol. 303:19-44(1999).
      NUCLEOTIDE SEQUENCE.
STRAIN-NOD; TISSUE=Thymus;
MEDLINE=22354683; PubMed=12466851; DOI=10.1038/nature01266;
MEDLINE=22354683; PubMed=12466851; DOI=10.1038/nature01266;
Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,
Nikaido I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.
Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori
Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,
Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,
Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins
                                                                                                                                                                                                              NUCLEOTIDE SEQUENCE.
STRAIN=NOD; TISSUE=Thymus;
PubMed=16141073; DOI=10.1126/science.1112009;
PubMed=nome Exploration Research Group, and Genome Scie(Genome Network Core Team) and the FANTOM Consortium;
"Antisense Transcription in the Mammalian Transcriptome.
Science 309:1564-1566(2005).
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NCBI_TaxID=10090;
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                                                                                                                                                                                                                                                                                                                                                                                                             mammalian
                                                                                                                                                                                                                                                                                                                                                                                                             genome.";
    Beisel K.W.
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RA Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Frazer K.S., RA Gassterland T., Gariboldi M., Gissi C., Godzik A., Gough J., RA Grimmond S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D., RA Kanai A., Kawaji H., Kawasawa Y., Kedzierzki R.M., King B.L., RA Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A., RA Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A., RA Maglott D.R., Maltais L., Marchionni L., McKenzie L., Miki H., RA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S., Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S., RA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S., RA Sandelin A., Schneider C., Semple C.A., Setou M., Shimada K., Saltana R., Takenaka Y., Taylor M.S., Teaddale R.D., Tomita M., Saltana R., Takenaka Y., Taylor M.S., Teaddale R.D., Tomita M., Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C., RA Wilming L.G., Wynshaw-Boris A., Yanagisawa M., Yang I., Yang I., Yang L., Yang I., Yang I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RX KEDLINE=20105660; PubMed=11217851; DOI=10.1038/3505500; Ishii Y., RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y., RA Kawai J., Shinagawa A., Fukunishi Y., Konno H., Adachi J., Fukuda S., RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I., RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I., RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T., RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T., RA Kadota K., Matsuda T., Gissi C., King B., Kochiwa H., RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J., RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J., RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J., RA Kuehl P., Dewis S., Furuno M., Aono H., Baldarelli R., Barsh G., RA Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T., RA Schriml I.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T., RA Blake J., Boilt C., Fletcher C., Fujita M., Gariboldi M., RA Blake J., Boilt C., Fletcher C., Fujita M., Gariboldi M., Ra Barownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M., Ra Barownstein M.J., Mashima J., Mazzarelli J., Mombaerts P., Ra Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N., Ra Nasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F., Ra Myushaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S., Ra Myushaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S., Ra Myushaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S.,
                                                                                                                                                STRAIN=NOD; TISSUE=Thymus;

MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;

Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,

Konno H., Akiyama J., Nishi K., Kitsunai T., Tashiro H., Itoh M.,

Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,

Yamamoto R., Matsumoto H., Sakguchi S., Ikegami T., Kashiwagi K.,

Fujiwake S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M.,

Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsuura S., Kawai J.,

Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;

"RIKEN integrated sequence analysis (RISA) system-384-format

sequencing pipeline with 384 multicapillary sequencer.";

Genome Res. 10:1757-1771(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  60,770
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Hayashizaki Y.;
"Functional annotation of
Nature 409:685-690(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100; Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., It Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.; Wormalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genome Res. 10:1617-1630(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUCLEOTIDE SEQUENCE
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Pfam; PF00008; BGF; 1.
Pfam; PF000084; Sushi; 2.
Pfam; PF000089; Trypsin; 1.
PRINTS; PR00722; CHYMOTRYPSIN.
SMART; SM00032; CCP; 2.
SMART; SM00042; CUB; 1.
SMART; SM00181; EGF; 2.
SMART; SM00181; EGF; 2.
SMART; SM00020; Tryp_SPC; 1.
PROSITE; PS01180; CUB; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEROPS; S01 998;

RISEMBL; ENSMUSGO0000027188; Mus mu MCI; MCI:2445082; E430002G05Rik.

GO; GO:0005615; C:extracellular space; GO:0004266; F:chymotrypsin activity; GO; GO:0004295; F:trypsin activity; GO; GO:0006508; P:proteolysis; RCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro; IPR000859; C
InterPro; IPR006210; E
InterPro; IPR000742; E
InterPro; IPR0006209; E
InterPro; IPR013032; E
InterPro; IPR0013032; E
InterPro; IPR001254; P
InterPro; IPR001254; P
InterPro; IPR001314; P
InterPro; IPR000436; S
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301
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                                                                                                                                                                                                                                  YVEVRDGDNRDGQIIKRVCGNERPAPIQSIGSSLHVLFHSDGSKNFDGFHAIYEBITACS
                                                                                                                                                                                                                                                                                                                                              YGGDCMRCGQVLRAPKGQILLESYPLNAHCEWTIHAKPGFVIQLRFVMLSLEFDYMCQYD
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                                             NGRHAKIGTVVSFFCNNSYVLSGNEKRTCQQNGEWSGKQPICIKACREPKISDLVRRRVL
                                                                                                                      SSPCFHDGTCYLDKAGSYKCACLAGYTGQRCENLLEERNCSDPGGPVNGYQKITGGPGLI
                                                                                                                                                                                                          YVEVRDGDNSDSPIIKRFCGNERPAPIRSTGSSLHVLFHSDGSKNFDGFHAVFEEITACS
                                                                                                                                                                                                                                                                                                             YGGDCMRCGQVLRASKGQTLLES
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Furuno M.,
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F:chymotrypsin activity; RCA.
F:trypsin activity; RCA.
P:proteolysis; RCA.
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Hanagaki T., Hara A.
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7
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Pred. No. 4.7e-263;
3; Mismatches 38;
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Koya
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RESULT CREATED TO THE PROPERTY OF THE PROPERTY
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XX Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
XX A Klausner R.D., Collins F.S., Wagner L.H., Schaefer C.F., Shat N.K.,
XX A Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
XX A Lischul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
XX A Lischul S.F., Jordan H., Moore T., Max, Rubin G.M., Hong L.,
XX A Lischenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
XX A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
XX A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
XX A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
XX A Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
XX A Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
XX A Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
XX A Brownstein M.J., McKernan K.J., Malek J.A., Gunaratrue P.H.,
XX A Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratrue P.H.,
XX A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
XX A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
XX A Richards S., Worley K.C., Hale S., Garcia A.M., Rodrigues S., Sanchez A.,
XX A Willalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
XX A Fahey J., Helton B., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
XX A Willialon D.K., Touchman J.W., Green E.D., Dickson M.C.,
XX A Willialon D.K., Touchman J.W., Green E.D., Dickson M.C.,
XX A Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
XX A Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
XX A Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
XX A Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
XX A Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
XX A Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
XX A Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
XX A Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
XX A Blakesley R.W., Touc
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01-OCT-2002, integrated into Unii
01-OCT-2002, sequence version 1.
18-APR-2006, entry version 25.
Regeneration associated muscle pi
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   NUCLEOTIDE SEQUENCE.
STRAIN=CZECH II; TISSUE=Mammary
                                                                                                                                                  strausberg R.;
                                                                                                                                                                                                                        STRAIN=CZECH II;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             arose spontaneously;
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                                                                                                                                                                                                                                                         SEQUENCE
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PÉAM; PF000084; SUBH; 2.

PÉAM; PF000089; TXYPSÍN; 1.

PEAM; PF000089; CCY; 2.

PEAM; PF000089; CCC; 2.

SWART; SW000042; CCC; 2.

SWART; SW000042; CCB; 1.

SWART; SW000020; TXYP; SPC; 1.

SWART; SW000181; EGF; 2.

SWART; SW00020; TYP; SPC; 1.

PROSITE; PS01186; EGF; 1.

PROSITE; PS01186; EGF; 1.

PROSITE; PS01186; EGF; 1.

PROSITE; PS00022; SUSH; 2.

PROSITE; PS0023; SUSH; 2.

PROSITE; PS0023; SUSH; 2.

PROSITE; PS50240; TRYPSIN DOM; 1
                                                                                                                                                                                                                                                                                                                                                                                     Protease.
SEQUENCE
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GO; GO:0005615; C:extracellular space; RCA.
GO; GO:0004263; F:cchymotrypsin activity; RCA.
GO; GO:0004295; F:trypsin activity; RCA.
GO; GO:0006508; P:proteolysis; RCA.
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Ensembl; ENSMUSG00000027188; Mus
MGI; MGI:2445082; E430002G05Rik
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o; IPR000859; CUB.
o; IPR000859; CUB.
o; IPR000742; EGF 1.
o; IPR013032; EGF 1ike reg.
o; IPR013032; EGF 1ike reg.
o; IPR003003; Pept 1ke reg.
o; IPR0001254; Peptidase S1 S6.
o; IPR0011254; Peptidase S1A.
o; IPR0014314; Peptidase S1A.
o; IPR0014316; Sushi_SCR_CCP.
F000431; CUB; 1.
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NERHVKIGTVVSFFCNGSYVLSGNEKRTCQQNGEWSGKQPVCMKACREPKISDLVRRRVL
               NGRHAKIGTVVSFFCNNSYVLSGNEKRTCQQNGEWSGKQPICIKACREPKISDLVRRRVL
                                                                   SSPCFHDGTCVLDKAGSYKCACLAGYTGQRCENLLEERNCSDPGGPVNGYQKITGGPGLI
                                                                                                        YVEVRDGDNRDGQIIKRVCGNERPAPIQSIGSSLHVLFHSDGSKNFDGFHAIYEEITACS
                                                                                                                                                                YGGDCMRCGQVLRASKGQILLESYPLNAHCEWTIHARPGFIIQLRFGMLSLEFDYMCQYD
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                                                                                                                                                                                                                                 VVGYTIPCCRNEENECDSCLIHPGCTIFENCKSCRNGSWGGTLDDFYVKGFYCAECRAGW
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                                                                                                                                                                                                                                                                                        MELGCWTQLGLTFLQLLLISSLPREYTVINEACPGAEWNIMCRECCEYDQIECVCPGKRE
                                                   SSPCFHDGTCLLDTTGSFKCACLAGYTGQRCENLLEERNCSDLGGPVNGYKKITEGPGLL
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Creative Commons Attribution-NoDerivs License
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RP NUCLEOTIDE SEQUENCE.

RX TISSUE=Whole body;

RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;

RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;

RA ALTSCHUL S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

RA Richards S., McTewan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

RA Richards S., McTewan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

RA Wiltalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,

RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,

RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,

"Generation and initial analysis of more than 15,000 full-length human R. Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
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16-AUG-2004,
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02-MAY-2006,
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;
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Name=MGC89196;
                                              Copyrighted by the UniProt Consortium, Distributed under the Creative Commons
                                                                                                                TISSUE=Whole body;
Klein S., Gerhard D.S.;
Submitted (JUN-2004) to the
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sequence version 1.
entry version 15.
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R Ensembl; ENSXETGO000007554; Xenopus tropicalis.

R GO; GO:0004252; F:serine-type endopeptidase activity; IEA

R GO; GO:0004508; P:proteolysis; IEA.

R InterPro; IPR000520; EGF.

RR InterPro; IPR000742; EGF_3.

RR InterPro; IPR000742; EGF_1ike_reg.

RINTERPro; IPR001003; Pept_Ser_Cys.

RINTERPro; IPR001003; Pept_Ser_Cys.

R InterPro; IPR001034; Sushi_SCR_CCF.

R InterPro; IPR001046; Sushi_SCR_CCF.

R InterPro; IPR0000436; Sushi_SCR_CCF.

R Fiam; PF00008; EGF; 1.

R Pfam; PF00008; EGF; 1.

R PACSITE; SM00012; CUB; 1.

R PROSITE; PS01186; EGF_2; 1.

R PROSITE; PS00126; EGF_3; 1.

R PROSITE; PS0026; EGF_3; 1.

R PROSITE; PS0026; EGF_3; 1.

R PROSITE; PS0026; EGF_3; 1.

R PROSITE; PS0027; TRYPSIN_DOM; 1.

R PROSITE; PS0027; TRYPSIN_DOM; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                         YDYVEVRDGDNRDGQIIKRVCGNERPAPIQSIGSSLHVLFHSDGSKNFDGFHAIYEEITA
|||:|||||| | :|:|| | | | :|:|| :||:||
YDYLEVRDGDNVDAKILKRFCGNQRPLSLRSTGNSLHLLFQSDGSKNFDGFYVTFEEVTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NQKVGYTIPCCRNEENECDSCLIHPGCSIFENCKSCNNGSWGGTLDDFYIKGSYCSECRM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MELGCWTQLGLTFLQLLLISSLP--REYTVINEACPGAEWNIMCRECCEYDQIECVCPGK
                                                                                                                                      VLPMQVQSRETPLHQLYSAAFSKQKLQSAPTKKPALPFGDLPMGYQHLHTQLQYECISPF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REVVGYTIPCCRNEENECDSCLIHPGCTIFENCKSCRNGSWGGTLDDFYVKGFYCAECRA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MALLVWSSLVVASLHLLGTAAYPSRSKYTVINENCPGAEWNIMCRDCCEYDQVECACPDG
                                                                  QSLQISAIILHPNYDPILLDADIAILKLLDKARISTRVQPICLAASRDLSTSFQESHITV
                                                                                                                                                                                                                                                            YRRLGSSRRTCLRTGKWSGRAPSCIPICGKIENITAPKTQGLRWPWQAAIYRRTSGVHDG
||| ||||||||:|||:|| || ||
                                                                                                                                                                                                                                                                                                                                                                                                                                                    YRRTGSSRRTCLKTGKWSGRAPSCIPICGKLENFNITQLGEQRWPWQAALYRRSNGVKDA
AGWNVLADVRSPGFKNDTLRSGVVSVVDSLLCEEQHEDHGI PVSVTDNMFCASWEPTAPS
                                            QHLHISAVIVNPNYDPILLDSDIAVIKLLDKARVSDYVQPVCLTLATEMITSPQEYTIVI
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Pred. No. 1.3e
10; Mismatches
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538 480 478

540

658

600

358

300

238 180

240

120

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RESULT 11
Q711RB9 HUWAN
ID Q711RB9 HUWAN
AC Q71RE9;
DT 05-JUL-2004, s
DT 18-APR-2006, c
DE FP938.
OS Homo Bapiens (
OC Eukaryota; Met
OC Eukaryota; Met
OC Catarrhini; Het
OC Catarrhini; Het
OC Catarrhini; Het
OX NCBI TaxID=966
RN NUCLEOTIDE SEC
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ensembl; ENSGOODO1149090; Homo sapiens.
GO; GO:00004252; F:serine-type endopeptidase ac:
GO; GO:00006508; P:proteolysis; IEA.
InterPro; IPR009903; Pept Ser Cys.
InterPro; IPR001254; PeptIdase S1 S6.
InterPro; IPR001254; PeptIdase S1A.
InterPro; IPR000134; PeptIdase S1A.
InterPro; IPR000134; Sushi_SCR_CCP.
Pfam; PF00084; Sushi_S1.
Pfam; PF00084; Sushi_S1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRINTS; PRO0722; CHYMOTRYPSIN.
SMART; SM00020; Tryp SPc; 1.
PROSITE; PS50923; SUSHI; 1.
PROSITE; PS50240; TRYPSIN DOM; 1
Serine protease homolog; Sushi.
SEQUENCE 417 AA; 46703 MW; 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Huang Y., Zhou X.M., Zhang P.P., Jiang H.Q., Qin W.N Wan D.F., Gu J.R.;
Submitted (APR-2001) to the EMBL/GenBank/DDBJ database-i- SIMILARITY: Belongs to the peptidase SI family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        05-JUL-2004, integrated into UniProtKB/TrEMBL 05-JUL-2004, sequence version 1. 18-APR-2006, entry version 12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens (Human)
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                               VNERTVVVAAHCVTDLGKVTMIKTADLKVVLGKFYRDDDRDEKTIQSLQISAIILHPNYD
                                                                                                                         KWSGRAPSCIPICGKIENITAPKTQGLRWPWQAAIYRRTSGVHDGSLHKGAWFLVCSGAL
                                                                                                                                                                                                                                 LYSAAFSKQKLQSAPTKKPALPFGDLPMGYQHLHTQLQYECISPFYRRLGSSRRTCLRTG
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                                                                                                                                                                                                                                                                                               FVTTPMFLVAMRKELASRMERWSGKQPICIKACREPKISDLVRRRVLPMQVQSRETPLHQ
VNERTVVVAAHCVTDLGKVTMIKTADLKVVLGKFYRDDDRDEKTIQSLQISAIILHPNYD
                                                                                             KWSGRAPSCIPICGKIENITAPKTQGLRWPWQAAIYRRTSGVHDGSLHKGAWFLVCSGAL
                                                                                                                                                                                                                                                                                                                                              FCNNSYVLSGNEKRTCQQNGEWSGKQPICIKACREPKISDLVRRRVLPMQVQSRETPLHQ
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                                                                                                                                                                                                                                                                                                                                                                                                                         52.2%;
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Pred. No. 2
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Q4SAP4 TETNG
ID Q4SAP4 TETNG
ID Q4SAP4 T
DT 19-JUL-2
DT Chromoso
GN ORFNames
OS Tetracdo
OC Acainopt
OC Acainopt
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IRA NICLEOTI
RA Nicaudi
RA Nicaudi
RA Cruaud C
RA Anthouar
RA Cruaud C
RA Lindblad
RA Lindblad
RA Lindblad
RA Lindblad
RA Lindblad
RA Lindblad
RA Interpro
DR Ffam; pp
DR Pfam; pp
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RA Jaillon O., Aury J.-M., Brunet F., Petit J.-L., Stange-Thomann N.,

RA Mauceli E., Bouneau L., Fischer C., Ozouti-Costaz C., Bernot A.,

RA Mauceli E., Bouneau L., Fischer C., Ozouti-Costaz C., Bernot A.,

RA Micaud S., Jaffe D., Fischer S., Lutfalla G., Dossat C., Segurens B.,

RA Nicaud S., Jaffe D., Fischer S., Lutfalla G., Dossat C., Segurens B.,

RA Anthouard V., Jubin C., Castelli V., Katinka M., Vacherie B.,

RA Anthouard V., Jubin C., Cattolico L., Poulain J., De Berardinis V.,

RA Anthouard C., Duprat S., Brottier P., Coutanceau J.-P., Gouzy J.,

RA Cruaud C., Duprat S., Brottier P., Coutanceau J.-P., Gouzy J.,

RA Cruaud C., Duprat S., Brottier P., Coutanceau J.-P., Gouzy J.,

RA Parra G., Lardier G., Chapple C., McKernan K.J., McEwan P., Bosak S.,

RA Rellis M., Volff J.-N., Guigo R., Zody M.C., Mesirov J.,

RA Kellis M., Volff J.-N., Guigo R., Zody M.C., Mesirov J.,

RA Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,

RA Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,

RA Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,

RA Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,

RA Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,

RA Mincker P., Lander E.S., Weissenbach J., Roest Crollius H.;

"Genome dupilication in the teleost fish Tetraodon nigroviridis reveals

RT The early vertebrate proto-karyotype.";

RN Nature 431:946-957 (2004).
                                                                                     GO; GO:0004252; F:serine-type endopepti
GO; GO:0006508; P:proteolysis; IEA.
InterPro; IPR000859; CUB.
InterPro; IPR000742; EGF 3.
InterPro; IPR006209; EGF 1ike.
InterPro; IPR0013032; EGF 1ike. reg.
InterPro; IPR001303; EGF 1ike. reg.
InterPro; IPR001304; Pept Ser Cys.
InterPro; IPR001254; PeptIdase S1A.
InterPro; IPR001314; PeptIdase S1A.
InterPro; IPR000436; Sushi_SCR_CCP.
Pfam; PF000431; CUB; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tetraodon nigroviridis (Green puffer).

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostom:
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleosto
Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;
Tetradontoidea; Tetraodontidae; Tetraodon.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19-JUL-2005, integrated into UniProtKB/TrEMBL 19-JUL-2005, sequence version 1. 02-MAY-2006, entry version 7. Chromosome 13 SCAF14688, whole genome shotgun
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             EMBL; CAAE01014688; CAG02378.1; -;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Distributed under the Creative Commons
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORFNames=GSTENG00021480001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Copyrighted by the UniProt Consortium,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  preliminary data.
                                     PF00089;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
                               ; Sushi; 2.
Trypsin; 1
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                                                                                                                                                                                                                                                                                                                                                                                                                       F:serine-type endopeptidase
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Euteleostei; Neoteleostei;
                                                                                                                                                                                                                                                                                                                                                                                                                             activity;
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SMART; SM00042; CUB; 1.

SMART; SM00020; Tryp_SPc; 1.

SMOSITE; PS01180; CUB; 1.

PROSITE; PS01186; EGF 1; 1.

PROSITE; PS50186; EGF 3; 1.

PROSITE; PS50026; EGF 3; 1.

PROSITE; PS50026; EGF 3; 1.

PROSITE; PS50026; TRYPSIN_DOM; 1.

SEQUENCE 1009 AA; 111811 MW; 1
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                                                                                                                                     VNERTYVVAAHCVTDLGKVTMIKTADLKVVLGKFYRDDDRDEKTIQSLQISAIILHPNYD
                                                                                                                                                                                                          QVNGKRDPDKVGPNDTKLRAVGGEVENTVEAFNTDYTENNTVTFETKERQSSNNSIRSPD
                                                                                                                                                                                                                                                                                                                                                                                                    LINGRH----
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GGTLDDFYVKGFYCAECRAGWYGGDCMRCGQVLRAPKGQILLESYPLNAHCEWTIHAKPG
                                                      DSHWPWLAAIYRRSNNRVGKKVTSGDGQTGSLKTDDGAGSGVRD---LESDWQLVCSGVL
                                                                                                                                                                                       GLRWPWQAAIYRRT-----
                                                                                                                                                                                                                                                                       QPICIKACREPKISDLVRRRVLPMQVQSRETPLHQLYSAAFSKQKLQSAPTKKPALPFGD 398
                                                                                                                                                                                                                                                                                             EANESFREKSCPPLPHLHHGYHRVVPGAKPEAVEFFCNHSYALSGDALRSCQSDGTWSGR
                                                                                                                                                                                                                                                                                                                                     KKRVPARVNVTQYTMYRAGGEESGGTVRNSLKKEDNKEKDPTEDGRRELEKEDKAKESER
                                                                                                                                                                                                                                                                                                                                                          ----AKI------GTV-----
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PPLTDSRTSSHRPSQGKGEDKGRWRLLGLVSFGYDQGECDPDLYTVYTHVANFKDW
                                                                                 PHVLDSDVAVIRLLDKAKIGEKVAPLCLSDSQEDLETTSEQGLVT--GWSPVPD---PSL
                                                                                                                          VNORSVVVAAHCVTELGKVYPLETAKLKVVVGKHFREDOREDKGPOHLRVDSIAVHENYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
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             -SFPGRASPEPRWHLMGLVSWSYDK-TCSHRLSTAFTKVLPFKDW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        109;
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Pred. No. 1e-108;
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                                                                                                                                                                                                                                                                                                               -----VSFFCNNSYVLSGNEKRTCQQNGEWSGK 338
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RESULT

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CKSCRNGSWGGTLDDFYVKGFYCAECRAGWYGGDCMRCGQVLRAPKGQILLESYPLNAHC

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Q4SHD4 TETMO
ID Q4SHD4, TETMO
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Nu PubMed=15496914; DOI=10.1038/nature03025;

A Jaillon O., Aury J.-M., Brunet F., Petit J.-L., Stange-Thomann N.,

A Mauceli E., Bouneau L., Fischer C., Ozouf-Costaz C., Bernot A.,

Nicaud S., Jaffe D., Fisher S., Lutfalla G., Dossat C., Segurens B.,

A Nicaud S., Jaffe D., Fisher S., Lutfalla G., Dossat C., Segurens B.,

A Nicaud S., Jaffe D., Fisher S., Boudet N., Castellano S.,

A Anthouard V., Jubin C., Castelli V., Katinka M., Vacherie B.,

A Anthouard V., Jubin C., Cattolico L., Poulain J., De Berardinis V.,

A Cruaud C., Duprat S., Brottier P., Coutanceau J.-P., Gouzy J.,

A Cruaud C., Duprat S., Brottier P., Coutanceau J.-P., Gouzy J.,

A Parra G., Lardier G., Chapple C., McKernan K.J., McEwan P., Bosak S.,

A Parra G., Lardier G., Chigo R., Zody M.C., Mesirov J.,

A Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,

A Laudet V., Schachter V., Quetier F., Saurin W., Scarpelli C.,

"Genome duplication in the teleost fish Tetraodon nigroviridis reveals

"The early vertebrate proto-karyotype.";
                                                                                                                  Query Ma
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QASHDA;
QASHDA;
19-JUL-2005, integrated into Un
19-JUL-2005, sequence version 1
18-APR-2006, entry version 6.
Chromosome 5 SCAR14581, whole g
ORFNames=GSTENGO0018208001;
                                                                                                                                                                                                                                                                                                                                                                                                                         InterPro; IPR000859; CUB.
InterPro; IPR009003; Pept Ser Cys.
InterPro; IPR001254; Peptidase S1 S6.
InterPro; IPR000436; Sushi_SCR_CCP.
Pfam; PP00431; CUB; 1.
Pfam; PP00084; Sushi; 1.
Pfam; PF00089; Trypsin; 1.
SWART; SM00042; CUB; 1.
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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;

Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;

Tetradontoidea; Tetraodontidae; Tetraodon.
                                                                                                                                                                                                                              Sushi.
NON_TER
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SEQUENCE
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Genoscope; Whitehead Institute Centre for Genome Research;
Submitted (FEB-2004) to the EMBL/GenBank/DDBJ databases.
-!- CAUTION: The sequence shown here is derived from an
EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry whi
                                                                                                                                                                                                                                                                                                                                          PROSITE; PS01180; CUB; 1.
PROSITE; PS50923; SUSHI; 1.
PROSITE; PS50240; TRYPSIN_DOM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GO; GO:0004252; F:serine-type endopeptidase GO; GO:0006508; P:proteolysis; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
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SIMILARITY: Belongs to the peptidase
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488
                                                                                                                  Conservative
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488
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                                                                                                                                         28.5%;
                                                                                                                                                                                                                                 MW;
                                                                                                                  89;
                                                                                                               Score 1122.5; DB
Pred. No. 1.1e-75;
9; Mismatches 155
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GO; GO:0004252; F:serine-type endopeptidase ac GO; GO:0006508; P:proteolysis; IEA.
InterPro; IPR009003; Pept Ser_Cys.
InterPro; IPR001254; Peptidase_S1_S6.
Pfam; PF00089; Trypsin; 1.
SMART; SM00020; Tryp SPc; 1.
PROSITE; PS50240; TRYPSIN_DOM; 1.
Hypothetical protein.
NON_TER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Q9Y432 HUMAN PRELIMINARY; PRT; 181 AA. 29Y432; 01-NOV-1999, integrated into UniProtKB/TrEMBL. 01-NOV-1999, sequence version 1. 18-APR-2006, entry version 28. Hypothetical protein DKFZp586H2123; Name=DKFZp586H2123;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalla; Eutheria; Euarchontoglires; Primates; Hapl
Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                       EMBL; AL050214; CAB43317.1; -; mRNA.
PIR; T08805; T08805.
HSSP; P00736; 1MD7.
MEROPS; S01.998; -.
                                                                                                                                                                                                                                                                                                                                                                                                             Ansorge W., Wirkner U., Mewes H.W., Gassenhuber J., Wier Submitted (MAY-1999) to the EMBL/GenBank/DDBJ databases -!- SIMILARITY: Belongs to the peptidase S1 family.
                                                                                                                                                                      Ensembl; ENSG00000149090;
GO; GO:0004252; F:serine-t
GO; GO:0006508; P:proteol)
                                                                                                                                                                                                                                                                                                                                               Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TISSUE=Uterus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=9606;
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HUMAN
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Haplorrhini;
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Pfam; PF03815; LCCL; 1.
Pfam; PF00059; Lecri-
Pfam; PF00059; Lecri-
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SMART; SM00032; CCP; 5.

SMART; SM00034; CLECT; 1.

SMART; SM00603; LCCL; 1.

SMART; SM00603; Tryp_SPC; 1.

SMART; SM00020; Tryp_LECTIN_2;

PROSITE; PS500041; C_TYPE_LECTIN_2;

PROSITE; PS00022; EGF 1; UNKNOMN_1

PROSITE; PS50020; LCCL; 1.
                                                                                                                                                                                                                                                                                                                                                                                   InterPro; IPR000742; EGF 3.
InterPro; IPR013111; EGF extrace
InterPro; IPR013032; EGF like re
InterPro; IPR004043; LCCL.
InterPro; IPR004043; LCCL.
InterPro; IPR001304; Lectin C.
InterPro; IPR001304; Pept Ser Cy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUCLEOTIDE SEQUENCE.
MEDLINE=21955715; PubMed=11958140;
Wang D., Liu J., Chen L., Wang L., Yang G., Wu X.,
"Cloning and expression of Tachypleus tridentatus
Acta Biochim. Biophys. Sin. 34:77-82(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Arthropoda; C
Limulidae; Tachyolene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     QTT9S1 TACTR PRELIMINARY; PRT; 1019 AA.
QBT9S1;
Q1-JUN-2002, integrated into UniProtKB/TrEMBL.
Q1-JUN-2002, sequence version 1.
18-APR-2006, entry version 18.
Factor C precursor.
                                                                                                                                                                                  Pfam; PF00059; Lectin_C; 1.
Pfam; PF000084; Sushi; 5.
Pfam; PF000089; Trypsin; 1.
PRINTS; PR00722; CHYMOTRYPSIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GO; GO:0004252; F:serine-type endopeptidase GO; GO:0005529; F:sugar binding; IEA. GO; GO:0006508; P:proteolyeis; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HSSP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Copyrighted by the UniProt Consortium, Distributed under the Creative Commons
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Peptidase_S1_S6
Peptidase_S1A.
Sushi_SCR_CCP.
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LCCL.
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Chelicerata; Merostomata; Xiphosura;
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Attribution-NoDerivs License
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                                                                                                                                                                                                                                                               PSS0923; SUSHI; 5.
PSS0240; TRYPSIN DOM; 1.
PS00134; TRYPSIN HIS; UNKNOWN 1.
PS00135; TRYPSIN SER; 1.
                                                                                                                                                                                                                                                                                                                         SVEIKP---PSRTNSISRVGSPFLRLPRLPLPLARAAKPPPKPRSSQPSTVDLASKVKLP 706
                                                                                                                                                                                                                                                                                                                                                                                                      GLINGRHAKIGTVVSFFCNNSYVLSGNEKRTCQQNGEWSGKQPICIK--ACREPKISDLV 355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HDGTCV-LDKAGS----YKCACLAGYTGQRCENLLEERN---CSDPGGPVNGYQKITGGP 297
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LDKDVİPSSLTEALRGKĞLTTTWIĞLHRLDAEKPFVWELMDRSNVVLNDNLTFWASGEPG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CSLTAGTVWGTAIYHELSSVCRAAIHAGKLPNSGGAVHVVNNGPYSDFLGSDLNGIKSEE 413
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CSGNYFLMGFNTLKCNLDGSWSGSQPSCVKVADREVDCDSKAVDFLDDVGEPVRIHCPAG 353
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       --DDFYVKGFYCAECR--AGWYGG--DCMR-------CGQVLR--APKG 137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IFENCKSCR-NGSWGGTL------
                                                                                                                                                                                                                        -KTQGLRWPWQAAIYRRTSGVHDGSLHKGAWFLVCSGALVNERTVVVAAHCVTDLGKVTM
                                                                                                                                                                                                                                                                                                                                                     RRRVLPMQVQSRETPLHQLYSAAFSKQKLQ---SAPTKKPALPFGD------LP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LKSLARSFRFDYVSSSTAGRSGCPDGWFEVEENCVYVTSKQRAWERAQGVCTNMAARLAV 473
                               RVQPICLPT--DITT---REHLKEGTLAVVTGWG----LNENNTYSEMIQQAVLPVVAAS
                                                                                                                     RVQPICLAASRDLSTSFQESHI-----TVAGWNVLADVRSPGFKNDTLRSGVVSVVDSL 628
                                                                                                                                                IDPSQFKIYLGKYYRDDSRDDDYVQVREALBIHVNPNYDPGNLNFDIALIQLKTPVTLTT
                                                                                                                                                                 IKTADLKVVLGKFYRDDDRDEKTIQSLQISAIILHPNYDPILLDADIAILKLLDKARIST
                                                                                                                                                                                                        NSTEIGOWPWOAGISRWLA-----DHNMWFLQCGGSLLNEKWIVTAAHCVTYSATAEI 819
                                                                                                                                                                                                                                                                                                                                                                                   --IDGFYA--GSSIRYSCEVLHYLSGTETVTCTTNGTWSAPKPRCIKVITCONPPVPSYG 649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               IQS--IGSSLHVLFHSDG-SKNFDGFH------AIYEEITACSSSPCF 245
      VSWSYDKTCSH-RLSTAFTKVLPFKDWIER 717
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26 1019 factor C.
1019 AA; 112249 MW; B8E51730AE595993 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   308; Indels 222;
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VSWGSPSGCGKANQYGGFTKVNVFLSWIRQ 1017

Search completed: April 4, 2007, 22:04:11 Job time: 399 secs

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Result
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           Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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1: /EMC_Celerra_SIDS3/ptodata/2/iaa/5_COMB.pep:*
2: /EMC_Celerra_SIDS3/ptodata/2/iaa/6_COMB.pep:*
3: /EMC_Celerra_SIDS3/ptodata/2/iaa/7_COMB.pep:*
4: /EMC_Celerra_SIDS3/ptodata/2/iaa/H_COMB.pep:*
5: /EMC_Celerra_SIDS3/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /EMC_Celerra_SIDS3/ptodata/2/iaa/RE_COMB.pep:*
7: /EMC_Celerra_SIDS3/ptodata/2/iaa/backfiles1.pep:*
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APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
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Goddard, Audrey
Godowski, Paul J.
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PRIOR APPLICATION NUMBER: 60/049787
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PRIOR PELICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
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FILING DATE: 1998-06-04
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APPLICATION NUMBER: 60/087607
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APPLICATION NUMBER: 60/083322
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APPLICATION NUMBER: 60/084600
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APPLICATION NUMBER: 60/088021
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Kljavin, Ivar J.
Napier, Mary A.
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RLGSSRRTCLRTGKWSGRAPSCIPICGKIENITAPKTQGLRWPWQAAIYRRTSGVHDGSL
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                                 PMQVQSRETPLHQLYSAAFSKQKLQSAPTKKPALPFGDLPMGYQHLHTQLQYECISPFYR
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RESULT 3 (Sequence 231, Application US/09997333 Patent No. 6953836 GENERAL INFORMATION: APPLICANT: Bakkenazi, Avi J. APPLICANT: Bakkenazi, Avi J. APPLICANT: Bakken, Eavin P. APPLICANT: Botstein, David APPLICANT: Botstein, David APPLICANT: Botstein, David APPLICANT: Botstein, David APPLICANT: Genoyers, Luc APPLICANT: Gerritsen, Mary APPLICANT: Gerritsen, Mary APPLICANT: Goddard, Audrey APPLICANT: Goddowski, Paul J. APPLICANT: Godowski, Paul J. APPLICANT: Gurmey, Austin L. APPLICANT: Gurmey, Austin L. APPLICANT: Napier, Mary A. APPLICANT: Napier, Mary A. APPLICANT: Roy, Margaret Ann APPLICANT: Walliams, P. Mickey APPLICANT: Walliams, P. Mickey APPLICANT: Walliams, P. Mickey APPLICANT: Wood, William I. APPLICANT: Wood, William I. APPLICANT: Wood, William I. APPLICANT: Wood, William I. APPLICANT: Wood, William I. APPLICANT: Wood, William I. APPLICANT: Wood, William I. APPLICANT: Wood, William I. APPLICANT: Wood, William I. APPLICANT: Wood, William I. APPLICANT: Wood, William I. APPLICANT: Wood, William I. APPLICANTON NUMBER: 60/049797 PRIOR APPLICATION NUMBER: 60/049797 PRIOR APPLICATION NUMBER: 60/06250 PRIOR FILING DATE: 1997-10-17 PRIOR APPLICATION NUMBER: 60/062511 PRIOR APPLICATION NUMBER: 60/06251 PRIOR APPLICATION NUMBER: 60/06311 PRIOR APPLICATION NUMBER: 60/06311 PRIOR APPLICATION NUMBER: 60/06311 PRIOR APPLICATION NUMBER: 60/06311 PRIOR APPLICATION NUMBER: 60/06391 PRIOR APPLICATION NUMBER: 60/07945 PRIOR APPLICATION NUMBER: 60/07945 PRIOR APPLICATION NUMBER: 60/07945 PRIOR APPLICATION NUMBER: 60/07945	421 481 541 541 601 661
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Sequence 231, Application US/09992598
Patent No. 6956108
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Beststein, David
APPLICANT: Besnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Ferrara, Napoleone
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.

RESULT 4 US-09-992-598-231

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APPLICATION NUMBER: 60/092182
FILING DATE: 1998-07-09
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CTAETGGIAAVSFPGRASPEPRWHLMGLVSWSYDKTCSHRLSTAFTKVLPFKDWIERNMK
                                                                    LQISAIILHPNYDPILLDADIAILKLLDKARISTRVQPICLAASRDLSTSFQESHITVAG
                                                                                                       HKGAWFLVCSGALVNERTVVVAAHCVTDLGKVTMIKTADLKVVLGKFYRDDDRDEKTIQS
                                                                                                                                                                                                              NGRHAKIGTVVSFFCNNSYVLSGNEKRTCQQNGEWSGKQPICIKACREPKISDLVRRRVL
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                                                                                                                                          RLGSSRRTCLRTGKWSGRAPSCIPICGKIENITAPKTQGLRWPWQAAIYRRTSGVHDGSL
                                                                                                                                                                          SSPCFHDGTCVLDKAGSYKCACLAGYTGQRCENLLEERNCSDPGGPVNGYQKITGGPGLI
                                                                                                                                                                                                                                                           SSPCFHDGTCVLDKAGSYKCACLAGYTGQRCENLLEERNCSDPGGPVNGYQKITGGPGLI
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                                                                                                                                                                                                                                                                                                                                YGGDCMRCGQVLRAPKGQILLESYPLNAHCEWTIHAKPGFVIQLRFVMLSLEFDYMCQYD
                                             WNVLADVRSPGFKNDTLRSGVVSVVDSLLCEEQHEDHGIPVSVTDNMFCASWEPTAPSDI
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                                  WNVLADVRSPGFKNDTLRSGVVSVVDSLLCEEQHEDHGIPVSVTDNMFCASWEPTAPSDI
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CURRENT APPLICATION NUMBER: US/09/992,598
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR APPLICATION NUMBER: 60/065186
PRIOR APPLICATION NUMBER: 60/065186
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
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        DR FILING DATE: 1998-06-04

PR APPLICATION NUMBER: 60/088030

PR FILING DATE: 1998-06-04

PR APPLICATION NUMBER: 60/088033

PR FILING DATE: 1998-06-04

PR PELICATION NUMBER: 60/088326

PR FILING DATE: 1998-06-04

PR APPLICATION NUMBER: 60/088167

PR FILING DATE: 1998-06-05

PR FILING DATE: 1998-06-05

PR PELICATION NUMBER: 60/088202

PR FILING DATE: 1998-06-05

PR PELICATION NUMBER: 60/088212

PR APPLICATION NUMBER: 60/088212

PR APPLICATION NUMBER: 60/088217

PR APPLICATION NUMBER: 60/088217

PR PILING DATE: 1998-06-05

PR APPLICATION NUMBER: 60/088655

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PR APPLICATION NUMBER: 60/088655
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FILING DATE: 1998-06-04
APPLICATION NUMBER: 60/088028
FILING DATE: 1998-06-04
APPLICATION NUMBER: 60/088029
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APPLICATION NUMBER: 60/087759
FILING DATE: 1998-06-02
APPLICATION NUMBER: 60/087827
FILING DATE: 1998-06-03
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FILING DATE: 1998-05-28
APPLICATION NUMBER: 60/087607
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FILING DATE: 1998-02-25
APPLICATION NUMBER: 60/078910
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FILING DATE: 1997-11-13
APPLICATION NUMBER: 60/066770
FILING DATE: 1997-11-24
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FILING DATE: 1998-06-04
APPLICATION NUMBER: 60/088025
FILING DATE: 1998-06-04
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APPLICATION NUMBER: 60/084600
FILING DATE: 1998-05-07
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FILING DATE: 1998-04-28
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Watanabe, Colin K. Williams, P. Mickey
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Roy, Margaret Ann
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Kljavin, Ivar J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Grimaldi, J. Christopher
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DR FILING DATE: 1998-06-19

DR APPLICATION NUMBER: 60/089948

DR FILING DATE: 1998-06-19

DR APPLICATION NUMBER: 60/089952

DR FILING DATE: 1998-06-19

DR APPLICATION NUMBER: 60/090246

DR APPLICATION NUMBER: 60/090252

DR APPLICATION NUMBER: 60/090252
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DR APPLICATION NUMBER: 60/089598

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DR APPLICATION NUMBER: 60/089599

DR FILING DATE: 1998-06-17

DR APPLICATION NUMBER: 60/089600

DR FILING DATE: 1998-06-17

DR APPLICATION NUMBER: 60/089653

DR FILING DATE: 1998-06-17

DR FILING DATE: 1999-06-17
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OR FILING DATE: 1998-06-16
OR PPLICATION NUMBER: 60/089512
OR FILING DATE: 1998-06-16
OR APPLICATION NUMBER: 60/089514
OR FILING DATE: 1998-06-16
OR APPLICATION NUMBER: 60/089532
OR FILING DATE: 1998-06-17
OR APPLICATION NUMBER: 60/089538
OR APPLICATION NUMBER: 60/089538
R FILING DATE: 1998-06-24

PR FILING DATE: 1998-06-24

R FILING DATE: 1998-06-24

PR APPLICATION NUMBER: 60/090472

PR APPLICATION NUMBER: 60/090472

R FILING DATE: 1998-06-24

PR APPLICATION NUMBER: 60/090535

PR FILING DATE: 1998-06-24
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RR APPLICATION NUMBER: 60/090254

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DR APPLICATION NUMBER: 60/090349

DR FILING DATE: 1998-06-23

DR APPLICATION NUMBER: 60/090355
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FILING DATE: 1998-06-24
APPLICATION NUMBER: 60/090444
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APPLICATION NUMBER: 60/090429
FILING DATE: 1998-06-24
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FILING DATE: 1998-06-11
APPLICATION NUMBER: 60/089105
FILING DATE: 1998-06-12
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FILING DATE: 1998-06-11
APPLICATION NUMBER: 60/088861
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FILING DATE: 1998-06-24
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FILING DATE: 1998-06-18
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APPLICATION NUMBER: 60/088826
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APPLICATION NUMBER: 60/088738
FILING DATE: 1998-06-10
APPLICATION NUMBER: 60/088742
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FILING DATE: 1998-06-18
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FILING DATE: 1998-06-18
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OR FILING DATE: 1998-06-24
OR APPLICATION NUMBER: 60/090542
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OR APPLICATION NUMBER: 60/090557
OR FILING DATE: 1998-06-24
OR APPLICATION NUMBER: 60/090676
OR FILING DATE: 1998-06-25
OR APPLICATION NUMBER: 60/090678
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OR FILING DATE: 1998-07-07
DR APPLICATION NUMBER: 60/091982
OR FILING DATE: 1998-07-07
DR APPLICATION NUMBER: 60/092182
OR FILING DATE: 1998-07-09
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FILING DATE: 1998-07-01
APPLICATION NUMBER: 60/091519
FILING DATE: 1998-07-02
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                         PMQVQSRETPLHQLYSAAFSKQKLQSAPTKKPALPFGDLPMGYQHLHTQLQYECISPFYR
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TITLE OF INVENTION: Secreted and Transmembra
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C61
CURRENT APPLICATION NUMBER: US/09/989,735
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-10-17
PRIOR PPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/06570
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-03-25
PRIOR FILING DATE: 1998-03-20
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-04-28
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APPLICANT: Baker, Kevin P.
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Ferrara, Napoleone
Fong, Sherman
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Stewart, Timothy A.
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Grimaldi, J. Christopher
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Goddard, Audrey
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Botstein, David
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OR FILING DATE: 1998-05-28
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DR FILING DATE: 1998-06-12

R APPLICATION NUMBER: 60/089440

DR FILING DATE: 1998-06-16

DR APPLICATION NUMBER: 60/089512

DR FILING DATE: 1998-06-16

DR APPLICATION NUMBER: 60/089514

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APPLICATION NUMBER: 60/088826 FILING DATE: 1998-06-10 APPLICATION NUMBER: 60/088858 FILING DATE: 1998-06-11

OR APPLICATION NUMBER: 60/089538
OR FILING DATE: 1998-06-17
OR APPLICATION NUMBER: 60/089598
OR FILING DATE: 1998-06-17
OR APPLICATION NUMBER: 60/089599
OR FILING DATE: 1998-06-17
OR APPLICATION NUMBER: 60/089600
OR FILING DATE: 1998-06-17
OR APPLICATION NUMBER: 60/089653

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GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, Javid
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napole
APPLICANT: Fong, Sherman
APPLICANT: Gerrber, Hanspet
APPLICANT: Gerritsen, Mary
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey
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     Baker, Kevin P.
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Goddard, Audrey
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APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J.Christopher
APPLICANT: Grimaldi, J.Christopher
APPLICANT: Napie: A.
APPLICANT: Napie: A.
APPLICANT: Napie: A.
APPLICANT: Pani, Javin, Tvar J.
APPLICANT: Pani, Javin, Tvar J.
APPLICANT: Pani, Nicholas F.
APPLICANT: Pani, Nicholas F.
APPLICANT: Pani, Nicholas F.
APPLICANT: Wallams, P. Mickey
APPLICANT: Wallams, P. Mickey
APPLICANT: Wallams, D. Aniel
APPLICANT: Wallams, D. Mickey
APPLICANT: Wallams, D. Mickey
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NUMBER: 60/088824

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APPLICATION NUMBER: 60/088876 FILING DATE: 1998-06-11 APPLICATION NUMBER: 60/089105

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APPLICATION NUMBER: 60/091478
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APPLICATION NUMBER: 60/091544
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APPLICATION NUMBER: 60/091626
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                   PMQVQSRETPLHQLYSAAFSKQKLQSAPTKKPALPFGDLPMGYQHLHTQLQYECISPFYR
                                                                                        NGRHAKIGTVVSFFCNNSYVLSGNEKRTCQQNGEWSGKQPICIKACREPKISDLVRRRVL
                                                                                                                                      SSPCFHDGTCVLDKAGSYKCACLAGYTGQRCENLLEERNCSDPGGPVNGYQKITGGPGLI
                                                                                                                                                          SSPCFHDGTCYLDKAGSYKCACLAGYTGQRCENLLEERNCSDPGGPVNGYQKITGGPGLI
                                                                                                                                                                                                       YVEVRDGDNRDGQIIKRVCGNERPAPIQSIGSSLHVLFHSDGSKNFDGFHAIYEEITACS
                                                                                                                                                                                                                           YVEVRDGDNRDGQIIKRVCGNERPAPIQSIGSSLHVLFHSDGSKNPDGFHAIYEEITACS
                                                                                                                                                                                                                                                                            YGGDCMRCGQVLRAPKGQILLESYPLNAHCEWTIHAKPGFVIQLRFVMLSLEFDYMCQYD
                                                                                                                                                                                                                                                                                                YGGDCMRCGQVLRAPKGQILLESYPLNAHCEWTIHAKPGFVIQLRFVMLSLEFDYMCQYD
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                                                                                                                                                                                                                                                                                                                                                                                                                                        MELGCWTQLGLTFLQLLLISSLPREYTVINEACPGAEWNIMCRECCEYDQIECVCPGKRE
PMQVQSRETPLHQLYSAAFSKQKLQSAPTKKPALPFGDLPMGYQHLHTQLQYECISPFYR
                                                                 NGRHAKIGTVVSFFCNNSYVLSGNEKRTCQQNGEWSGKQPICIKACREPKISDLVRRRVL
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DATE: 1998-07-09
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FILING DATE: 1998-06-17
APPLICATION NUMBER: 60/089538
FILING DATE: 1998-06-17
APPLICATION NUMBER: 60/089598

FILING DATE: 1998-06-16
APPLICATION NUMBER: 60/089514
FILING DATE: 1998-06-16
APPLICATION NUMBER: 60/089532

FILING DATE: 1998-06-16 APPLICATION NUMBER: 60/089512 FILING DATE: 1998-06-12 APPLICATION NUMBER: 60/089440

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APPLICATION NUMBER: 60/ FILING DATE: 1998-06-24 APPLICATION NUMBER: 60/ FILING DATE: 1998-06-24

APPLICATION NUMBER: FILING DATE: 1998-00

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60/090472 60/090445

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60/090431 60/090429 60/090355 60/090349 60/090254

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FILING DATE:

1998-06-23

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1998-06-22

APPLICATION FILING DATE: APPLICATION

NUMBER: 60/090252 NUMBER: 60/090246

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FILING DATE:

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APPLICATION

NUMBER:

60/089952

1998-06-19 1998-06-19

1998-06-19

NUMBER: 60/089948 NUMBER: 60/089947 NUMBER: 60/089908

APPLICATION FILING DATE: APPLICATION

1998-06-18

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60/089907

LING DATE:

FILING DATE: APPLICATION

APPLICATION NUMBER:

DATE:

1998-06-18

NUMBER: 60/089801

APPLICATION NUMBER: 60/089653 FILING DATE: 1998-06-17

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1998-06-17

FILING DATE: 1998-06-17 APPLICATION NUMBER: 60/089599 FILING DATE: 1998-06-17

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CURRENT FILING DATE: US/09/997,514
CURRENT FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR FILING DATE: 1997-10-17
PRIOR FILING DATE: 1997-11-12
PRIOR FILING DATE: 1997-11-12
PRIOR FILING DATE: 1997-11-12
PRIOR PRIOR APPLICATION NUMBER: 60/065311
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR PRIOR PRIOR DATE: 1997-11-24
PRIOR PRIOR PRIOR DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/06670
PRIOR APPLICATION NUMBER: 60/075945
PRIOR APPLICATION NUMBER: 60/075945
PRIOR APPLICATION NUMBER: 60/078910
PRIOR APPLICATION NUMBER: 60/078910
PRIOR APPLICATION NUMBER: 60/08332
PRIOR FILING DATE: 1998-03-20
PRIOR FILING DATE: 1998-04-28
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/08332
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APPLICANT:
APPLICANT:
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APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C46
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APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
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o. 70191
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Kljavin, Ivar J.
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Grimaldi, J. Christopher
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             Sequence 231, Application US, Patent No. 7029873
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Betnoyers, Juc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleo
APPLICANT: Ferrara, Napoleo
APPLICANT: Gerber, Hanspete:
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                                                                       Botstein, David
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APPLICANT: Tanin, Zenin

APPLICANT: Zenin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P73001C72

CURRENT APPLICATION NUMBER: US/09/989,728

CURRENT FILING DATE: 2001-11-20

PRIOR APPLICATION NUMBER: 60/04978

PRIOR APPLICATION NUMBER: 60/06250

PRIOR FILING DATE: 1997-06-16

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/06250

PRIOR FILING DATE: 1997-11-12

PRIOR APPLICATION NUMBER: 60/065311

PRIOR APPLICATION NUMBER: 60/06670

PRIOR FILING DATE: 1997-11-13

PRIOR APPLICATION NUMBER: 60/06670

PRIOR FILING DATE: 1997-11-24

PRIOR APPLICATION NUMBER: 60/06670

PRIOR FILING DATE: 1998-02-25

PRIOR FILING DATE: 1998-02-25

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PRIOR FILING DATE: 1998-02-25
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DR FILING DATE: 1998-06-02
DR APPLICATION NUMBER: 60/087759
DR FILING DATE: 1998-06-02
DR APPLICATION NUMBER: 60/087827
DR APPLICATION NUMBER: 60/088021
DR APPLICATION NUMBER: 60/088021
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APPLICATION NUMBER: 60/0
FILING DATE: 1998-05-28
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FILING DATE: 1998-04-28
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Godowski, Paul J.
Grimaldi, J.Christopher
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Williams, P. Mickey
Wood, William I.
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Stewart, Timothy A.
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Kljavin, Ivar i
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OR FILING DATE: 1998-06-12
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OR FILING DATE: 1998-06-16
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RAPPLICATION NUMBER: 60/090690

PR FILING DATE: 1998-06-25

PR APPLICATION NUMBER: 60/090694

PR FILING DATE: 1998-06-25

PR FILING DATE: 1998-06-26

PR APPLICATION NUMBER: 60/090862

PR APPLICATION NUMBER: 60/090863

PR APPLICATION NUMBER: 60/090863

PR APPLICATION NUMBER: 60/090863

PR FILING DATE: 1998-06-26

PR FILING DATE: 1998-06-26

PR FILING DATE: 1998-07-01

PR APPLICATION NUMBER: 60/091360

PR PILING DATE: 1998-07-01

PR APPLICATION NUMBER: 60/091478

PR PILING DATE: 1998-07-02
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R APPLICATION N
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APPLICATION NUMBER: 60/091978
FILING DATE: 1998-07-07
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FILING DATE: 1998-07-02
APPLICATION NUMBER: 60/091633
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APPLICATION NUMBER: 60/091982
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APPLICATION NUMBER: 60/090676
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FILING DATE
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PMQVQSRETPLHQLYSAAFSKQKLQSAFTKKPALFFGDLPMGYQHLHTQLQYECISFFYR
                                                    NGRHAKIGTVVSFFCNNSYVLSGNEKRTCQQNGEWSGKQPICIKACREPKISDLVRRRVL
                                                                   NGRHAKIGTVVSFFCNNSYVLSGNEKRTCQQNGEWSGKQPICIKACREPKISDLVRRRVL
                                                                                                                  SSPCFHDGTCVLDKAGSYKCACLAGYTGQRCENLLEERNCSDPGGPVNGYQKITGGPGLI
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APPLICANT: Zhang, Zenin
TITLE OF INVENTION: Secreted and Transmembrane Pol
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C37
CURRENT APPLICATION NUMBER: US/09/997,349
CURRENT APPLICATION NUMBER: 60/049787
PRIOR PILLING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR APPLICATION NUMBER: 60/062250
PRIOR APPLICATION NUMBER: 60/065186
PRIOR APPLICATION NUMBER: 60/065186
PRIOR APPLICATION NUMBER: 60/065311
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILLING DATE: 1997-11-13
PRIOR FILLING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/06770
PRIOR FILLING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR APPLICATION NUMBER: 60/075945
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILLING DATE: 1998-03-20
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APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
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Gerritsen, Mary E
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Godowski, Paul J.
Grimaldi, J. Christopher
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, wart, Timothy A.
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DR APPLICATION NUMBER: 60/084600

R FILING DATE: 1998-05-07

PR FILING DATE: 1998-05-28

R APPLICATION NUMBER: 60/087106

DR APPLICATION NUMBER: 60/087607

PR FILING DATE: 1998-06-02

PR APPLICATION NUMBER: 60/087609

PR APPLICATION NUMBER: 60/087759

PR FILING DATE: 1998-06-02

PR APPLICATION NUMBER: 60/087827

PR FILING DATE: 1998-06-02

PR APPLICATION NUMBER: 60/080021

PR APPLICATION NUMBER: 60/080021

PR APPLICATION NUMBER: 60/08025

PR APPLICATION NUMBER: 60/08025

PR FILING DATE: 1998-06-04

PR APPLICATION NUMBER: 60/08026

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PR APPLICATION NUMBER: 60/08029

PR APPLICATION NUMBER: 60/08029

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PR FILING DATE: 1998-06-04

PR APPLICATION NUMBER: 60/08030

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FILING DATE: APPLICATION FILING DATE: APPLICATION	FILING DATE	PELIC	FILING DATE	ILING		PPLIC	APPLICATION	FILING DATE:	FILING DATE	APPLICATION	APPLICATION	FILING DATE	APPLICATION	APPLICATION	FILING DATE	APPLICATION	APPLICATION	FILING DATE	APPLICATION	APPLICATION	FILING DATE	FILING DATE	APPLICATION	FILING DATE	FILING DATE	APPLICATION	APPLICATION	FILING DATE	FILING DATE	APPLICATION	APPLICATION	FILING DATE:	FILING DATE	APPLICATION	APPLICATION	FILING DATE	FILING DATE	APPLICATION	FILING DATE	FILING DATE:	APPLICATION	APPLICATION FILING DATE	E	APPLICATION	FILING DATE
1998-07 NUMBER: 1998-07 NUMBER:	1998-07 NUMBER:	1998-07-	NUMBER : 1998-	: 1998-06-	: 1998-06	NUMBER: 6	NUMBER: 6	1998-06-	1998-06-	LYY8-	NUMBER: 6	1998-06-	NUMBER: 6	NUMBER:	1998-06-24	1998-06-24 NUMBER: 60/	NUMBER: 60/	1998-06-24	1998-06-29 NUMBER: 60/	NUMBER: 60/	1998-06-	1998-06	NUMBER: 60/	1998-06-	1998-06-	NUMBER:	NUMBER: 6	1998-06	1998-06	NUMBEI	NUMBER: 60/	.866T	1998-06-22	1998-06-22 NUMBER: 60/	NUMBER: 60/	1998-06-19	1998-06-19	NUMBER: 60	1998-06	1998-06	NUMBER: 60	NUMBER:	1998-06-	NUMBER:	. 1998-06
091	ວົເ	091	091478	, ,	7090863	090862	090696	5		090694	090690		090678	090676		090557	090542		090540	090535	27.4050	090472	090445	090444		090435	090431	1		090355	090349	090254	1	090252	090246	706680	0000	089948	0000		806680,	089907	,	089801	0

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DR APPLICATION NUMBER: 60/088326
DR FILING DATE: 1998-06-04
DR PELLING DATE: 1998-06-05
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DR FILING DATE: 1998-06-05
DR APPLICATION NUMBER: 60/088202
DR FILING DATE: 1998-06-05
DR APPLICATION NUMBER: 60/088212
DR FILING DATE: 1998-06-05
DR APPLICATION NUMBER: 60/088217
DR APPLICATION NUMBER: 60/088655
DR FILING DATE: 1998-06-10
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DR APPLICATION NUMBER: 60/089599
DR APPLICATION NUMBER: 60/089599
DR FILING DATE: 1998-06-17

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Sequence 231, Application US/09997653
Patent No. 7034122
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eacon, Dan L.
APPLICANT: Eacon, Dan L.
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US-09-997-653-231
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DR FILING DATE: 1998-07-07
DR APPLICATION NUMBER: 60/091982
DR FILING DATE: 1998-07-07
DR APPLICATION NUMBER: 60/092182
DR FILING DATE: 1998-07-09
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           Ferrara, Napoleone
Fong, Sherman
Gerber, Hanspeter
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TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C38
CURRENT APPLICATION NUMBER: US/09/97,653
CURRENT FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR FILING DATE: 1997-06-16
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PRIOR APPLICATION NUMBER: 60/065186
PRIOR APPLICATION NUMBER: 60/065311
PRIOR APPLICATION NUMBER: 60/065311
PRIOR APPLICATION NUMBER: 60/065311
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
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OR APPLICATION NUMBER: 60/087106
OR APPLICATION NUMBER: 60/087607
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OR FILING DATE: 1998-06-02
OR APPLICATION NUMBER: 60/087609
OR FILING DATE: 1998-06-02
OR APPLICATION NUMBER: 60/087759
OR APPLICATION NUMBER: 60/087827
OR APPLICATION NUMBER: 60/087827
OR FILING DATE: 1998-06-03
OR APPLICATION NUMBER: 60/08025
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APPLICATION NUMBER: 60/083322
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Grimaldi, J. Christopher
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PMQVQSRETPLHQLYSAAFSKQKLQSAPTKKPALPFGDLPMGYQHLHTQLQYECISPFYR
                                        NGRHAKIGTVVSFFCNNSYVLSGNEKRTCQQNGEWSGKQPICIKACREPKISDLVRRRVL
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APPLICATION NUMBER: 60/ FILING DATE: 1998-06-10

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PRIOR APPLICATION NUMBER: 60/049787
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PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
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TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C66
FILE REFERENCE: P2730P1C66
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APPLICANT: Baker,Kevin P.
APPLICANT: Botstein,David
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Kljavin, Ivar J.
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Godowski, Paul J.
Grimaldi, J.Christopher
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art, Timothy A.
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APPLICATION NUMBER: 60/084600
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APPLICATION NUMBER: 60/088033
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APPLICATION NUMBER: 60/088021
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20; Conservative
           CTAETGGIAAVSFPGRASPEPRWHLMGLVSWSYDKTCSHRLSTAFTKVLPFKDWIERNMK
                                                                                  LQISAIILHPNYDPILLDADIAILKLLDKARISTRVQPICLAASRDLSTSFQESHITVAG
                                                                                                                          HKGAWFLVCSGALVNERTVVVAAHCVTDLGKVTMIKTADLKVVLGKFYRDDDRDEKTIQS
                                                                                                                                                                                                                                                                      NGRHAKIGTVVSFFCNNSYVLSGNEKRTCQQNGEWSGKQPICIKACREPKISDLVRRRVL
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                                        WNVLADVRSPGFKNDTLRSGVVSVVDSLLCEEQHEDHGIPVSVTDNMFCASWEPTAPSDI
                                                                                                                                                                                 RLGSSRRTCLRTGKWSGRAPSCIPICGKIENITAPKTQGLRWPWQAAIYRRTSGVHDGSL
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                                                                                                                                                                                                                           PMQVQSRETPLHQLYSAAFSKQKLQSAPTKKPALPFGDLPMGYQHLHTQLQYECISPFYR
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CTAETGGIAAVSFPGRASPEPRWHLMGLVSWSYDKTCSHRLSTAFTKVLPFKDWIERNMK
                                                                                                                                                                                                                                                                                                                                              YVEVRDGDNRDGQIIKRVCGNERPAPIQSIGSSLHVLFHSDGSKNFDGFHAIYEEITACS
                                                                                                                                                                       RLGSSRRTCLRTGKWSGRAPSCIPICGKIENITAPKTQGLRWPWQAAIYRRTSGVHDGSL
                                                                                                                                                                                                                PMQVQSRETPLHQLYSAAFSKQKLQSAPTKKPALPFGDLPMGYQHLHTQLQYECISPFYR
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Sequence 9, Application US/10067422
Patent No. 6743613
GENERAL INFORMATION:
APPLICANT: Ni et al.
TITLE OF INVENTION: Bone Morphogenic Protein
TITLE OF INVENTION: Antibodies
TITLE OF INVENTION Antibodies
CURRENT APPLICATION NUMBER: US/10/067,422
CURRENT FILING DATE: 2002-02-07
PRIOR APPLICATION NUMBER: 09/685,899
                                                                                                                                                                                                                                           RESULT 12
US-10-067-422-9
                                                                                                                     Protein
                                                                                                                     (BMP)
                                                                                                                     Polynucleotides,
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Polypeptides,

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PRIOR APPLICATION NUMBER: 60/147,020
PRIOR FILING DATE: 1999-08-03
PRIOR APPLICATION NUMBER: 60/131,672
PRIOR FILING DATE: 1999-04-29
PRIOR APPLICATION NUMBER: 60/130,693
PRIOR FILING DATE: 1999-04-23
PRIOR FILING DATE: 2.0
SEQ ID NO 9
SEQ ID NO 9
LENGTH: 570
                                                                                                                                               RESULT 13
US-10-183-992-4
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; ORGANISM: Homo
US-10-067-422-9
Sequence 4, Application US/10183992
PATENT NO. 6849426
GENERAL INFORMATION:
APPLICANT: Chen, Lin
APPLICANT: Pepe, Michael
TITLE OF INVENTION: Methods and Reagents
FILE REFERENCE: 02877.00008
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Best Local Similarity
Matches 552; Conserv
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PRIOR APPLICATION NUMBER: PCT/US00/09
PRIOR FILING DATE: 2000-04-06
PRIOR APPLICATION NUMBER: 60/152,933
PRIOR FILING DATE: 1999-09-09
PRIOR FILING DATE: 1999-09-09
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                                                                                                                                                                                                                             WSYDKTCSHRLSTAFTKVLPFKDWIERNMK 570
                                                                                                                                                                                                                                                                                                       EEQHEDHGI PVSVTDNMFCASWEPTAPSDICTAETGGIAAVSFPGRASPEPRWHLMGLVS
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Pred. No. 8.4e-237;
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LENGTH: 1019
TYPE: PRT
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Best Local
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CURRENT FILING DATE: 2002-06-28
PRIOR APPLICATION NUMBER: US 60/310,125
PRIOR FILING DATE: 2001-06-28
NUMBER OF SEQ ID NOS: 8
SOFTWARE: FastSEQ for Windows Version 4.0
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  VSWSYDKTCSH-RLSTAFTKVLPFKDWIER
                                   TCEEGYKEADLPLTVTENNFCAGYK-KGRYDACSGDSGG--PLVFADDSRTERRWVLEGI
                                                           LCEEQHEDHGIPVSVTDNMFCASWEPTAPSDICTAETGGIAAVSFPGRASPEPRWHLMGL
                                                                                                                      RVQPICLPT--DITT---REHLKEGTLAVVTGWG----LNENNTYSEMIQQAVLPVVAAS
                                                                                                                                                            RVQPICLAASRDLSTSFQESHI-----TVAGWNVLADVRSPGFKNDTLRSGVVSVVDSL
                                                                                                                                                                                                                       IKTADLKVVLGKFYRDDDRDEKTIQSLQISAIILHPNYDPILLDADIAILKLLDKARIST
                                                                                                                                                                                                                                                                                  NSTEIGQWPWQAGISRWLA-----DHNMWFLQCGGSLLNEKWIVTAAHCVTYSATAEI
                                                                                                                                                                                                                                                                                                       -KTQGLRWPWQAAIYRRTSGVHDGSLHKGAWFLVCSGALVNERTVVVAAHCVTDLGKVTM
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                                                                                                                                                                                                      IDPSQFKIYLGKYYRDDSRDDDYVQVREALEIHVNPNYDPGNLNFDIALIQLKTPVTLTT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Patent No. 5716834
GENERAL INFORMATION:
APPLICANT: Ding, Jeak
APPLICANT: Ho, Bow
TITLE OF INVENTION: TITLE OF INVENTION: TITLE OF INVENTION: X
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 14
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                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
Matches 222; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Murphy, Jr., Gerald M.
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 178
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 205-8000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
LENGTH: 1019 amino aci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE:
                                                                                                                                                                                                                                        104
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T: 8110 Gatehouse Road, Suite 500 East
Falls Church
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                                                                                                                                                            APKGQILLES----YPLNAHCEWTIHA----KPGFVI----
                 RPAPIOS -- IGSSLHVLFHSDG-SKNFDGFH-----
                                                                                                                                                                                                                                                                                                                                                                                    PGAEWNIMCRECCEYDQIECVCPGKRE------VVGYTIPCCRNEENECDSCLIH 82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VSWGSPSGCGKANQYGGFTKVNVFLSWIRQ 1017
                                                 KSEELKSLARSFRFDYVRSSTAGKSGCPDGWFEVDENCVYVTSKQRAWERAQGVCTNMAA
                                                                                                                                                                                                VTYTCSGNYFLMGFDTLKCNPDGSWSGSQPSCVKVADREVDCDSKAVDFLDDVGEPVRIH 349
                                                                                                                                                                                                                                     -----DDFYVKGFYCAECR--AGWYGG--DCMR-----
                                                                                                                                                                                                                                                                       PYYLIGQETLTCQGNGQWNGQIPQCKNLVFCPDLDPVNHAEHKVKIGVEQKYGQFPQGTE 289
                                                                                                                                                                                                                                                                                                PGCTIFENCKSCR-NGSWGGTL-----
                                                                                                                                                                                                                                                                                                                                                  PNGQWSNFPPKCIR----ECAMVSSPEHGKVNALSGDMIEGATL-----RFSCDS----
                                                                                     ---QLRFVMLSLEFDYM------CQYDYVEVRD-----GDNRDGQIIKRVCGN--E
                                                                                                                          CPAGCSLTAGTVWGTAIYHELSSVCRAAIHAGKLPNSGGAVHVVNNGPYSDFLGSDLNGI 409
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ilarity .25.4%;
Conservative 11
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                                                                                                                                                                                                                                                                                                                                                                                                                          118;
                                                                                                                                                                                                                                                                                                                                                                                                                      Score 665; DB 1;
Pred. No. 1.9e-46;
LB; Mismatches 304
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                 ----AIYEEITACSS
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US-08-596-405-4
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                          APPLICATION NUMBER: US/08/596,405
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Murphy, Jr., Gerald M.
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 1781-105P
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                  ZIP: 22042
COMPUTER READABI
MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Ding, Jeak Ling
APPLICANT: Ho, Bow
TITLE OF INVENTION: The Cloned Factor C cDNA of the
TITLE OF INVENTION: Singapore Horseshoe Crab, Carcinoscorpius
TITLE OF INVENTION: rotundicauda and Purification of Factor C
NUMBER OF SEQUENCES: 4
                                                                                                                                                                           COMPUTER: IBM PC COMPATIBLE PC-DOS/MS-DOS SOFTWARE: PATENTIN RE-BASE #1.0, CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
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               TELEPHONE:
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                                                                                                                                                                                                                                                                                                                              Virginia
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Bow
(703) 205-8050
                                                                                                                                                                                              PatentIn Release #1.0, Version #1.25
                 (703)
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INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1019 amino acids
TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 16.9%; Score 665; DB 1; Length 1019; Best Local Similarity 25.4%; Pred. No. 1.9e-46; Matches 222; Conservative 118; Mismatches 304; Indels 230;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE: protein
                                                                                        876 TLTTRVQPICLPT--DITT---REHLKEGTLAVVTGWG----LNENNTYSETIQQAVLPV
                                                                                                                                                                                                                            571 RISTRYOPICLAASRDLSTSFQESHI-----TVAGWNVLADVRSPGFKNDTLRSGVVSV
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                                                                                                                                                                                                                                                                                                                                                                                                                              456
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            350 CPAGCSLTAGTVWGTAIYHELSSVCRAAIHAGKLPNSGGAVHVVNNGPYSDFLGSDLNGI 409
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                                              685 LMGLVSWSYDKTCSH-RLSTAFTKVLPFKDWIER 717
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Search completed: April 4, 2007, 21:57:08 Job time : 50 secs

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Copyright (c) 1993 - 2007 Biocceleration Ltd.
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	furin (RC 3.4.21.7			8	-	76	1487
	propagre usau box			67		76	1486
	hypothetical prote			62	٠.	76	1485
	probable RNA-direc			61	٠,	76	1483
	WD-repeat protein				۲.	76	1482
₽ C₁	uetalloproteinase					76	1481
	hypothetical prote				٠.	76	1479
	purH bifunctional				1.	76	1478
	probable ADA-like				<u>.</u> .	76	1477
	hypothetical prote				- :-	76	1476
	hypothetical prote				٠,	76	1474
Q	membrane-associate				۲.	76	1473
Α ?	transcription fact				1.	76	1472
-	hymothetical prote				٠:	76	1471
	paired box transcr				<u></u>	76	1470
	RNA me				٠,	76	1468
	hypothetical prote				٠,-	76	1467
Q	teratocarcinoma-de				-	76	1466
	sperm motility inh				۲:	76	1465
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.9	horol prote				- :-	76.0	1462
	trithorax protein				٠,	76.5	1461
שֵ	Xin protein - chic				, _p	76.5	1460
	surface protein ty				۲.	76.5	1459
	alpha tectorin - m				<u>ب</u>	76.5	1458
	protein CTRP - mal			-	۳!	76.5	1457
	Mincll-2 - rat				٠,	76.5	1456
.9	vitellogenin vit-6				- :-	76.5	1454
	acetyl-CoA carboxy					76.5	1453
	aldehyde oxidase (1.	76.5	1452
	RNA polymerase iii				<u>.</u>	76.5	1451
	suppressor protein				- :	76.0	1447
	hypothetical prote				٠.	76.5	1448
	hypothetical prote				1.	76.5	1447
	gtarch phosphoryla				<u> </u>	76.5	1446
	mucin-like peptide				. .	76.5	1445
	integrin beta 2 ch				٠,	76.5	1443
	hypothetical prote				٠ بـ	76.5	1442
	finger protein - m				1.	76.5	1441
	hypothetical prote				<u>.</u> .	76.5	1440
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	H+-transporting tw				1.	76.5	1436
	hypothetical prote				۲:	76.5	1435
3 22	nypothetical prote				-	76.5	1434
	hypothetical prote				سر د •	76.5	1432
	importin alpha-lik				نب	76.5	1431
	transcription fact				۲:	76.5	1430
	gamma-giutamyi pho					76.5	1429
	Ig epsilon chain C				٠,٠	76.5	1427
	hypothetical prote				1.	76.5	1426
	probable lipopolys	AH079			!	76.5	1425
	propagae nistidino	EB 106				76.5	1424
	probable cobalamin				<u>ب</u> ،	76.5	1422
	hypothetical prote	T2483			٠,	76.5	1421
	nypothetical prote chitinase (EC 3.2.	S3734	,	322	1.9	76.5	1420
	four-and-a-half LI			_	ب.	76.5	1418
	hypothetical prote	E9745		_	٠.	76.5	1417
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181	720	TAETGGI	NVLADVI VLADVI	LQISAIII : LRISAIII	Query Match Best Local Similarity Matches 180; Conser	ical protein DK s: Homo sapiens 11-Jun-1999 #se ion: T08805 id to the Protei ion: T08805 ion: T08805 ion: T08805 ion: T08805 ile type: mRNA les: 1-181 <ans> references: UNI mental source: Cs: DKFZp586H2123.1</ans>		
		[AAVSFPC	SPGFKNI 	HPNYDP1	24.1%; llarity 99.4%; Conservative	DKFZp586H2123 ens (man) #sequence_revi er, U.; Mewes, tein Sequence Z16472 A NS> NSP NNSPOT:Q9Y432 e: adult uteru		908 925 926 934 967 1001 1084 1097 1206 1245
		JRAS JRAS	OTILR OTILR			6H2123.1) e_revisi e_revisi Mewes, H Mewes Da uence Da uence Da		000000000000000000000000000000000000000
		PEPRWHI 	SGVVSV SGVVSV	ADIAILI ADIAILI	Score Pred. 1; Mis	18 D	ALIO	T27117 T37477 OPPGIT OPPGIT A34372 T48210 AG1979 T18292 T18292 T18557 VHWVB2 S34230
		ICTAETGGIAAVSFPGRASPEPRWHLMGLVSWSYDKTCSHRLSTAFTKVLPFKDWIERNW 	GWNVLADVRS PGFKNDTLRSGVVSVVDS1LCEEQHEDHGI PVSVTDNMFCASWEPTAPSD 	SLQISAIILHPNYDPILLDADIAILKLLDKARISTRVQPICLAASRDLSTSPQESHITVA :	Score 949; DB 2; Lengt Pred. No. 6.8e-57; .; Mismatches 0; Inc	n (fragment un-1999 #te ssenhuber, May 1999	ALIGNMENTS	
		TAFTKVLPFKDWIERNM TAFTKVLPFKDWIERNM	VTDNMFCASWEPTAPSD VTDNMFCASWEPTAPSD	ASRDLSTSFQESHITVA 	Length 181; Indels 0; Gaps) J.; Wiemann, S. J.; EMBL:AL050214		hypothetical prote lipoprotein recept iodide peroxidase complement C6 prec hypothetical prote hypothetical prote hypothetical inhibitor probable hydrogena structural polypro 156K protein - Pla
		1 719	120	1 60	0;	ā		prote dase jprec prote prote prote prote prote bitor ogena

RESULT 2

coagulation factor C precursor - horseshoe crab (Tachypleus tridentatus)
N;Alternate names: coagulation-complement factor C; Limulus factor C
N;Contains: coagulation factor C heavy chain; coagulation factor C light chain peptide .
C;Species: Tachypleus tridentatus
C;Date: 04-Oct-1991 #sequence_revision 04-Oct-1991 #text_change 09-Jul-2004
C;Accession: A38738; B38738; S00105
C;Accession: A38738; Hasquence_revision 04-Oct-1991 #text_change 09-Jul-2004
C;Accession: A38738; B38738; S00105
C;Accession: A38738; B38738; F; Nakamura, T.; Toh, Y.; Ikehara, Y.; I.
J. Biol. Chem. 266, 654-6561, 1991
A;Title: Limulus factor C. An endotoxin-sensitive serine protease zymogen with a mosaic
A;Reference number: A38738; MUID:91177916; PMID:2007602
A;Accession: A38738
A;Molecule type: mRNA
A;Residues: 1-1019 <MUT>
A;Ccoss-references: UNIPROT:P28175; UNIPARC:UPI000012E5D2; GB:D90271; NID:g217396; PID:
A;Accession: B38738
A;Molecule type: mRNA
A;Molecule type: mRNA
A;Molecule type: mRNA
A;Molecule type: mRNA
A;Molecule type: mRNA
A;Molecule type: mRNA
A;Molecule type: mRNA
A;Molecule type: mRNA 1;Residues: 1-466,616,'DN',619-620,'A',622 <MU2>

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A; Molecule type: protein
A; Molecule type: protein
A; Residues: 'S', 27-39, 'S', 41, 'T', 43-54, 'E', 691-782;950-977 <TOK>
A; Residues: 'S', 27-39, 'S', 41, 'T', 43-54, 'E', 691-782;950-977 <TOK>
A; Residues: 'S', 27-39, 'S', 41, 'T', 43-54, 'E', 691-782;950-977 <TOK>
A; Residues: 'S', 27-39, 'S', 41, 'T', 43-54, 'E', 691-782;950-977 <TOK>
A; Residues: 'S', 27-39, 'S', 41, 'T', 43-54, 'E', 691-782;950-977 <TOK>
A; Residues: 'S', 27-39, 'S', 41, 'T', 43-54, 'E', 691-782;950-977 <TOK>
A; Residues: 'S', 27-39, 'S', 41, 'E', 691-782;950-977 <TOK>
A; Residues: 'S', 27-39, 'S', 41, 'T', 43-54, 'E', 691-782;950-977 <TOK-PRINGENERS: UNIPARC: UPI000179
C; Superfamily: coagulation factor C heavy chain #status experimental <HCH>
F; 125-70-71/Domain: complement factor H repeat homology <FH02>
F; 260-321/Domain: complement factor H repeat homology <FH03>
F; 415-564/Domain: complement factor H repeat homology <FH04>
F; 576-534/Domain: complement factor H repeat homology *Hstatus experimental <F; 691-762/Product: coagulation factor C light chain peptide A #status experimental <F; 763-1019/Product: coagulation factor C light chain peptide B #status experimental <F; 763-1019/Product: coagulation factor C light chain peptide B #status experimental
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A;Accession: S00105
A;Molecule type: protein
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A;Tokunaga, F.; Miyata, T.; Nakamura, T.; Morita, T.; Kuma, K.
Eur. J. Biochem. 167, 405-416, 1987
A;Title: Lipopolysaccharide-sensitive serine-protease zymogen
A;Title: Lipopolysaccharide-sensitive serine-protease zymogen
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;523,534,624,912/Binding site: carbohydrate (Asn) (covalent) #status predicted
;767/Binding site: carbohydrate (Asn) (covalent) #status experimental
;809,865,966/Active site: His, Asp, Ser #status predicted
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Best Local Similarity
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                                                                                                                                                                                                                                                                                             RRRVLPMQVQSRETPLHQLYSAAFSKQKLQ---SAPTKKPALPFGD------LP
                                                                                                                                                                                                                                                                                                                                                         --IDGFYA--GSSIRYSCEVLHYLSGTETVTCTTNGTWSAPKPRCIKVITCONPPVPSYG
                                                                                                                                                                                                                                                                                                                                                                                                                     GLINGRHAKIGTVVSFFCNNSYVLSGNEKRTCQQNGEWSGKQPICIK--ACREPKISDLV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NETNCVYLDIRDQLQPVWKTKSCFQPSSFACMMDLSDRNKAKCDDPGPLENGHATLHGQS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LKSLARSFRFDYVSSSTAGRSGCPDGWFEVEENCVYVTSKQRAWERAQGVCTNMAARLAV
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CSGNYFLMGFNTLKCNPDGSWSGSQPSCVKVADREVDCDSKAVDFLDDVGEPVRIHCPAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     --DDFYVKGFYCAECR--AGWYGG--DCMR---
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PGAEWNIM----CRECCEYDQIE---CVCPGKREVVGYTIPCCRNEENECDSCLIHPGCT
-KTQGLRWPWQAAIYRRTSGVHDGSLHKGAWFLVCSGALVNERTVVVAAHCVTDLGKVTM
                                                                                                                                                               MGYQHLHTQLQYECISPFYRRLGSSRRTCLRTGKWSGRAPSCIPICGKIENITAP-----
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                                                                                                   EGHYRVGSRAIYTCESRYYELLGSQGRRCDSNGNWSGRPASCIPVCGRSDSPRSPFIWNG
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25.6%;
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Pred. No. 2e-37;
.7; Mismatches 3
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C;Superfamily: complement-activating serine protesses Clr/Cls/MASP; Clr/Cls repeat C;Keywords: beta-hydroxyasparagine; complement pathway; duplication; glycoprotein; F;1-17/Domain: signal sequence #status predicted <SIG>
F;18-448,449-699/Product: Ra-reactive factor #status predicted <MAT>
F;19-135/Domain: Clr/Cls repeat homology <CIRl>
F;19-135/Domain: Clr/Cls repeat homology <CIRl>
F;143-181/Domain: Clr/Cls repeat homology <CIR2>
F;185-294/Domain: Clr/Cls repeat homology <CIR2>
F;367-432/Domain: complement factor H repeat homology <FH1>
F;367-432/Domain: complement factor H repeat homology <FH2>
F;449-691/Domain: trypsin homology <TRY>
F;449-691/Domain: try
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C;Species: Homo sapiens (man)
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A;Cross-references: GDB:361104; GDB:33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C; Genetics:
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                                                                                                                                                                                                                                                                                          ,646/Active site:
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                                       143
                                                                                                                                                                                         Similarity
                                       CKEREDEELSCDHY-
                                                                                                                                                                                             12.2%;
24.9%;
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VSWSYDKTCSH-RLSTAFTKVLPFKDWIER
                                                                                                                           LCBEQHEDHGIPVSVTDNMFCASWEFTAPSDICTAETGGIAAVSFFGRASPEPRWHLMGL
                                                                                                                                                                                                                                                                                TCEEGYKEADLPLTVTENMFCAGYK-KGRYDACSGDSGG--PLVFADDSRTERRWVLEGI
                                                                                                                                                                                    RVOPICLPT--DITT---REHLKEGTLAVVTGWG----LNENNTYSEMIQQAVLPVVAAS
                                                                                                                                                                                                                                     RVQPICLAASRDLSTSFQESHI-----TVAGWNVLADVRSPGFKNDTLRSGVVSVVDSL
                                                                                                                                                                                                                                                                                                                              IKTADLKVVLGKFYRDDDRDEKTIQSLQISAIILHPNYDPILLDADIAILKLLDKARIST
                                                                                                                                                                                                                                                                                                                                                                                NSTEIGQWPWQAGISRWLA------DHNMWFLQCGGSLLNEKWIVTAAHCVTYSATAEI
VSWGSPSGCGKANQYGGFTKVNVFLSWIRQ
1017
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                                                                                                                                          889
                                                                                                                                                                                         930
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                                                                                                                                                                                                                                     628
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Int. Immunol. 6, 665-669, 1994

A,Title: Molecular characterization of a novel serine protease
A,Reference number: I54763; MUID:94289349; PMID:8018603
A,Accession: I54763 Date: 19-May-2000 #sequence_revision 19-May-2000; Accession: I54763; JN0883 factor (EC 3.4.21.-) 1 precursor - human names: mannose binding protein-associated serine from GB/EMBL/DDBJ #text_change 09-Jul-2004 GB:D28593; proteinase 1 (MASP-1) involved NID:g790963; ä activation PIDN

A;Cross-references: UNIPROT:P48740; UNIPARC:UPI000016AD0B; GB:ER;Takada, F.; Takayama, Y.; Hatsuse, H.; Kawakami, M. R;Takada, F.; Takayama Commun. 196, 1003-1009, 1993
Biochem. Biophys. Res. Commun. 196, 1003-1009, 1993
A;Title: A new member of the Cls family of complement proteins
A;Reference number: JN0883; MUID:94059062; PMID:8240317 A;Molecule type: mRNA
A;Residues: 1-234,'E',236-284,'G',286-498,'K',500-542,'K',544-642,'S',
A;Cross-references: UNIPARC:UPI000016AF63; DDBJ:D17525; NID:g439712; I
A;Experimental source: liver
C;Comment: This is a serum bactericidal factor that activates compleme complement found ,644-699 <TAK> PIDN:BAA04477.1; ä þ Ç4 bactericidal and ខ្ល comp

סי

RARF1; PRSS5; MASP GDB:330954; OMIM:600521 homo hydr

F:49,178,407/Binding site: carbohydrate (Asn) (covalent) #status predicted F:73-91,13-157,153-166,168-181,185-212,242-260,301-349,329-362,367-414,397-432, F:159/Modified site: erythro-beta-hydroxyasparagine (Asn) #status predicted F:448-449/Cleavage site: Arg-Ile (autolytic) #status predicted His, Asp, Ser #status predicted

436-572

CRNEENECDSCLIHPGCTIFENCKSCRNGSWGGTLDDFYVKGFYCAECRAGWY----GGD 124 Score 482; DB 1; Pred. No. 8.2e-25; 3; Mismatches 215 -YIGGYYCS-CRFGYILHTDNRT Length Indels Gape

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A;Cross-references: UNIPARC:UPI0000001C2B; GB:X04701; NID:g29538; R;Arlaud, G.J.; Willis, A.C.; Gagnon, J. Biochem. J. 241, 711-720, 1987
                                                                                                                                                                                                       Biochem. J. 240, 783-787, 1986
A; Title: Cloning and sequencing of full-length cDNA encoding A; Reference number: A29768; MUID:87156625; PMID:3030286
                                                                                                                                                                                                                                                                                                                                                  Biochemistry 25, 4855-4863, 1986
A;Title: Nucleotide sequence of the cDNA coding for human complement A;Reference number: A24170; MUID:87026566; PMID:3021205
A;Accession: A24170
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                                                                                                                                                                                                                                                                                                                                                                                                   Species: Homo sapiens (man)
;Species: Homo sapiens (man)
;Date: 15-Nov-1984 #sequence_revision 30-Jun-1991 #text change 09-Jul-2004
;Accession: A24170; A29768; A29769; S02422; A00916; A37820; S68830
;Leytus, S.P.; Kurachi, K.; Sakariassen, K.S.; Davie, E.W.
                         ;Title: Complete amino acid sequence of the A chain of ;Reference number: A29769; MUID:87241248; PMID:3036070;Accession: A29769
                                                                                                                                           ;Molecule type: mRNA;Residues: 1-151,'L',153-705 <JOU>
                                                                                                                                                                                                                                                                    Cross-references: UNIPROT:P00736;
Journet, A.; Tosi, M.
                                                                                                                                                                                                                                                                                                          Molecule type: mRNA; Residues: 1-705 <LEY>
                                                                                                                                                                                        Accession: A29768
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DSGGPMVTLNRERG----QWYLVGTVSWGDDCGKKDRYG-VYSYIHHNKDWIQR 693
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ETGGIAAVSFPGRASPEPRWHLMGLVSWSYDKTCSHRLSTAFTKVLPFKDWIER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       QFLQRFP----ETLMEIEIPIVDHSTCQKAYAP--LKKKVTRDMICAG-EKEGGKDACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LADVRSPGFKNDTLRSGVVSVVDSLLCEEQHEDHGIPVSVTDNMFCASWEPTAPSDICTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    HTTLHPQYDPNTFENDVALVELLESPVLNAFVMPICLPEGPQ----
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LVNERTVVVAAHCV---TDLGKVT-----MIKTADLKVVLGKFYRDDDRDEKTIQSLQIS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LLGSSWIVTAAHCLHQSLDPGDPTLRDSDLLSPSDFKIILGKHWR--LRSDENEQHLGVK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IPICG------KIENITAPKTQGLRWPWQAAIYRRTSGVHDGSLHKGAWFLVCSGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LEHGLITFSTRNNLTTYKSEIKYSCQEPYYKMLNNNTGIYTCSAQGVWMNKVLGRSLPTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LPMGYQHLHT-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PIC-IKACREPKISDLVRRRVLPMQVQSRETPLHQLYSAAFSKQKLQSAPTKKPALPFGD 398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -----GKIEPSQAKY-----FFKDQVLVSCDTGYKVLKDNVEMDTFQIECLKDGTWSNKI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        YEEITACSSSPCFHDGTCVLDKAGSYKCACLAGYTGQRCENLLEERNCSDPGGPVNGYQK 292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PEVPCPYDYIKIKVGP----KVLGPFCGEKAPEPISTQSHSVLILFHSDNSAENRGWRL-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CRVECSDNLFTQRTGVITSPDFPNPYPKSSECLYTIELEEGFMVNLQFEDI---FDIQDH
      protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           QLQYECISPFYRRLGSSR--RTCLRTGKWS---
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                                                               human
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                                                               complement-classical-path
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Accession:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Cross-references: UNIPA
A;Note: 152-Leu was also
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Accession: S02422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R;Arlaud, G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Note: 152-Leu was
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Residues:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Accession: S68830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;Molecule type: protein
;Residues: 152-186 <AR3>
                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cross-references:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           activate C2 and C4.
                                                                                                                                         Local
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  78
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                                                                                                                                         Similarity
  SCLIHPGCTIF --- ENCKSCRNGSWGGTLD ---
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F;297-463/Product: Cir gamma fragment #status experimental <GFR>
F;309-371/Domain: complement factor H repeat homology <FH1>
F;376-447/Domain: complement factor H repeat homology <FH2>
F;464-705/Product: complement C1r chain B #status experimental <BCH>
F;464-697/Domain: trypsin homology <TRY>
F;464-697/Domain: trypsin homology <TRY>
F;71-89,146-165,161-174,176-189,193-220,250-268,309-358,338-371,376-429,406-447,451-577,F;71-89,146-185,181nding site: carbohydrate (Asn) (covalent) #status experimental F;167/Modified site: erythro-beta-hydroxyasparagine (Asn) #status experimental F;206/Binding site: phosphate (Ser) (covalent) (by casein kinase II) #status experiment.
F;463-464/Cleavage site: Arg-Ile (autolytic) #status experimental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Molecule type: protein
A;Residues: 18-26;'1',153-160;'XX',252-255 <THI>
A;Residues: 18-26;'1',153-160;'XX',252-255 <THI>
A;Residues: 18-26;'1',153-160;'XX',252-255 <THI>
A;Cross-references: UNIPARC:UPI0000172BC7; UNIPARC:UPI0000172BC8; UNIPARC:UPI0000172BC9
R;Pelloux, S.; Thielens, N.M.; Hudry-Clergeon, G.; Petillot, Y.; Filhol, O.; Arlaud, G.
FEBS Lett. 386, 15-20, 1996
A;Title: Identification of a cryptic protein kinase CK2 phosphorylation site in human control of the cryptic protein kinase CK2 phosphorylation site in human control of the cryptic protein kinase CK2 phosphorylation site in human control of the cryptic protein kinase CK2 phosphorylation site in human control of the cryptic protein kinase CK2 phosphorylation site in human control of the cryptic protein kinase CK2 phosphorylation site in human control of the cryptic protein kinase CK2 phosphorylation site in human control of the cryptic protein kinase CK2 phosphorylation site in human control of the cryptic protein kinase CK2 phosphorylation site in human control of the cryptic protein kinase CK2 phosphorylation site in human control of the cryptic protein kinase CK2 phosphorylation site in human control of the cryptic protein kinase CK2 phosphorylation site in human control of the cryptic protein kinase CK2 phosphorylation site in human control of the cryptic phosphorylation site in human control of the cryptic phosphorylation site in human control of the cryptic phosphorylation site in human control of the cryptic phosphorylation site in human control of the cryptic phosphorylation site in human control of the cryptic phosphorylation site in human control of the cryptic phosphorylation site in human control of the cryptic phosphorylation site in human control of the cryptic phosphorylation site in human control of the cryptic phosphorylation site in human control of the cryptic phosphorylation site in human control of the cryptic phosphorylation site in human control of the cryptic phosphorylation site in human control of the cryptic phosphor
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A;Residues: 133-137;187-211;610-613 <PEL>
A;Cross-references: UNIPARC:UPI0000172BCA; UNIPARC:UPI0000172BCB; UNIPARC:UPI0000172BCC
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A; Residues: 464-705 <AR2>,
A; Cross-references: UNIPARC: UPI000015033B
A; Cross-references: UNIPARC: UPI000015033B
R; Thielens, N.M.; Aude, C.A.; Lacroix, M.B.; Gagnon, J.;
J. Biol. Chem. 265, 14469-14475, 1990
A; Tille: Ca(2+) binding properties and Ca(2+)-dependent
A; Reference number: A37820; MUID: 90354439; PMID: 2387866
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEBS Lett. 222, 129-134, 1987
A; Title: Identification of erythro-beta-hydroxyasparagine A; Reference number: S02422; MUID:88005128; PMID:2820791
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F;193-302/Domain: Clr/Cls repeat homology <ClR2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             F;17-138/Domain: C1r/C1s repeat homology <C1R1>
F;18-463/Product: complement C1r chain A #status experimental <ACH>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Map position: 12p13-12p13
C; Superfamily: complement-activating serine proteases Clr/Cls/WASP; Clr/Cls repeat homo
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Biochemistry 22, 1758-1764, 1983
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 F;1-17/Domain: signal sequence #status predicted <SIG>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C; Keywords: acute phase; beta-hydroxyasparagine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Cross-references: GDB:119729; OMIM:216950
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                                                                                                                                                                                                                                                                                                                                                                                                   ;502,557,654/Active site: His, Asp,
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EGCFYDYVKI SADKKSLGRFCGQLGSPLGNPPGKKEFMSQGNKMLLTFHTDFSNEEN--G
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                                                                                                   ---VC------PGKREVVGYTIPCC--
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Pred. No. 1.6e-19;
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A;Note: submitted to GenBank, December 1996
A;Note: parts of this sequence, including the amino end of the mature protein, were dete C;Genetics:
A;Gene: GDB:MASP2
A;Cross-references: GDB:6071500
A;Cross-references: GDB:6071500
A;Cross-references: GDB:6071500
A;Cross-references: GDB:6071500
A;Cross-references: GDB:6071500
A;Map position: 1936.2-1p36.3
C;Superfamily: complement-activating serine proteases C1r/C1s/MASP; C1r/C1s repeat homol C;Superfamily: beta-hydroxyasparagine; complement pathway; duplication; hydrolase; serine p
                                                                                                                                                                                                                                                       A;Molecule type: mRNA
A;Residues: 1-686 <JEN>
A;Cross-references: UNIPROT:000187; UNIPARC:
A;Cross-references: UNIPROT:000187; UNIPARC:
A;Experimental source: tissue liver
A;Note: submitted to GenBank, December 1996
A;Note: parts of this sequence, including the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence of the sequence
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A;Status: nucleic acid sequence not shown; not compared with concessions.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  R; Thiel, S.; Vorup-Jensen, T.;
Nature 386, 506-510, 1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GFHAIY-EEITACSSSPCFHDGTCVLDKAGSYKCACLAGYTGQRCENLLEERNCSDPGGP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DESYNFEGDIALLELENSVTLGPNLLPICLP---DNDTFYDLGLMGYVSGFGVMEEKIAH
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                                                                                                                                                                                                                                                                                                                                                                                            GB:Y09926;
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RESULT 6
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complement subcomponent C1s

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precursor [similarity] -

golden hamster

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F;1-15/Domain: signal sequence #status predicted <SIG>
F;16-444,445-686/Product: Ra-reactive factor 2 #status predicted <MAT>
F;19-134/Domain: Clr/Cls repeat homology <CIR1>
F;142-180/Domain: EGF homology <EGF>
F;144-293/Domain: Clr/Cls repeat homology <CIR2>
F;300-31/Domain: complement factor H repeat homology <FH1>
F;366-430/Domain: complement factor H repeat homology <FH2>
F;445-679/Domain: trypsin homology <TRY>
F;445-679/Domain: trypsin homology <TRY>
F;72-90,142-156,152-165,167-180,184-211,241-259,300-348,328-361,366-412,396-430,434-552,F;158/Modified site: erythro-beta-hydroxyasparagine (Asn) #status predicted
F;444-445/Cleavage site: Arg-Ile (autolytic) #status predicted
F;483,532,633/Active site: His, Asp, Ser #status predicted
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F;483,532,633/Active site:
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Best Local
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                                                                                                       DTLRSGVVSVVDSLLCEEQHEDHGIP-VSVTDNMFCASWEPTAPSDICTAETGGIAAVSF
                                                                                                                                                                              ILLDADIAILKLLDKARISTRVOPICLAASRDLSTSFQESHITVAGWNVLADVRSPGFKN
                                                                                                                                                                                                                  AHAVYE----QKHDASALDIRMG-----TLKRLSPHYTQAWSEAVFIHEGYTHD
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                    PGRASPEPRWHLMGLVSWSYDKTCSHRLSTAFTKVLPFKDWIE
                                                                     RNLMYVDIPIVDHQKCTAAYEKPPYPRGSVTANNLCAGLE-SGGKDSCRGDSGG--ALVF
                                                                                                                                          AGFDNDIALIKLNNKVVINSNITPICLPRKEAESFMRTDDIGTASGWG----LTQRGFLA
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Conservative
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A;CCCSS-references: UNIPROT:P15156; UNIPARC:UPI000012700B; EMBL:X16160; NID:g49621; PIDN A;Note: part of this sequence, including the amino ends of both the heavy and light chai C;Superfamily: complement-activating serine proteases C1r/C1s/MASP; C1r/C1s repeat homoly C;Keywords: beta-hydroxyxasparagine; calcium binding; duplication; glycoprotein; hydrolas F;1-21/Domain: signal sequence #status predicted <SIC>
F;1-21/Domain: C1r/C1s repeat homology <C1R1>
F;22-444/Product: serine proteinase heavy chain #status experimental <HCH>
F;141-177/Domain: C1r/C1s repeat homology <C1R1>
F;181-293/Domain: C1r/C1s repeat homology <CTR2>
F;300-360/Domain: Complement factor H repeat homology <FH1>
F;445-682/Domain: crypsin homology <TRY>
F;446-682/Domain: trypsin homology <TRY>
F;446-682/Domain: trypsin homology <TRY>
F;155/Modified site: erythro-beta-hydroxyyasparagine (Asn) #status predicted
F;180,413/Binding site: carbohydrate (Asn) (covalent) #status predicted
F;480,536,638/Active site: His, Asp, Ser #status predicted
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A; Molecule type: mR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEBS Lett. 250, 411-415, 1989
A;Title: Complete primary structure of a calcium-dependent A;Reference number: S05008; MUID:89325606; PMID:2753140
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Best Local Similarity
Matches 168; Conser
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Kinoshita, H.; Sakiyama,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Species: Mesocricetus auratus (golden hamster)
Date: 10-Sep-1999 #sequence_revision 10-Sep-1999
                                                                                                                                                                                                                        388
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LLDKARISTRVQPICLAASRDLSTSFQESH---ITVAGW----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACSSSPCFHDGTCVLDKAGSYKCACLAGY-----
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                                              MYVGSTSVRM-
                                                                                M-IKTADLKVVLGKFYRDDDRDEKTIQSLQISAIILHPNYDP-----ILLDADIAILK
                                                                                                                                                                        GLRWPWQAAIYRRTSGVHDGSLHKGAW-----FLVCSGALVNERTVVVAAHCVTDLGKVT
                                                                                                                                                                                                                                                               TQLQYECISPFY----RRLGSSRRTCLRTGKWSG-----RAPSCIPICGKIENITAPKTQ
                                                                                                                                                                                                                                                                                                                                                  EPKISDLVRRRVLPMQVQSRETPLHQLYSAAFSKQKLQSAPTKKPALPFGDLPMGYQHLH
                                                                                                                                                                                                                                                                                                                                                                                                  KDVVKISCVDGFEAVEGNVGSTFFYS-----
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ilarity 21.8%;
Conservative 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                       --GLINGRHAKIGTVVSFFCNNSYVLSGNEKRTCQQNGEWSGK----QPICIKACR
                                                                                                                              ----IQQRIFGGFPAKIQSFPWQVFFEFPRAGGALIGEHWVLTAAHVVEGNSDPS
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Pred. No. 7.6e-18;
1; Mismatches 227;
                                         ENLANVQKLTTDRVIIHPGWKPGDDLSTRTNFDNDIALVR
                                                                                                                                                                                                                        -CAANGSWVNDELGIELPKCVPVCG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ----RNCSDP-----
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polyprotein - African clawed frog
C.Species: Xenopus laevis (African clawed frog)
C.Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #t
C.Accession: T30337
R;Yang, J.C.; Lindsay, L.L.; Hedrick, J.L.
submitted to the EMBL Data Library, March 1998
A;Description: cDNA cloning of ovochymase, a chymotry,
A;Reference number: Z20829
A;Accession: T30337
A;Status: preliminary; translated from GB/EMBL/DDBJ
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A;Cross-references: UNIPROT:Q91674; UNIPARC:UPI00000FBA76;
C;Superfamily: tryosin related nolumnotoin.
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                          DKAGSYKCACLAGYTGQRCENLLEERNCSDP----
     VVLGKFYRDDDR--DEKTIQSLQISAIILHPNYDPILLDADIAILKLLDKARISTRVQPI
                                                                               AAI-YRRTSGVHDGSLHKGAWFLVCSGALVNERTVVVAAHCVTDLGKVTMIKTAD---LK
                                                                                                                       AIALDVCGMAPM
                                                                                                                                                                                               TLPLPISSPENTMLIRFKTDMENSYPG--FKVKFSFVPKEKQFSLPVDDTPT-ISMLHPR
                                                                                                                                                                                                                                                                                                              GRHAKIGTVVSFFCNNSYVLSGNEKRTCQQNGEWSGKQPICIKACREPKISDLVRR----R
                                                                                                                                                                                                                                                                                                                                                                                                                              KMIRKVCGSTIPSPLIVRSNKVTVTFFSDGTFTGRGFEIQFLAIPTKAASAC--GSAKIL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NGTVRYPLSGNYSINSVCRWMLAVQKAKTIEIRFLQLDIEDHATCTFDYLSFTVNE----
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   G--CVSWGLGCGRSWGAKQIIRSQSGSPAIFSRVSSVLDFLRPPKLTGGCSSKGRTITGK
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CPGKREVVGY-----TIPCCRNEENECDSCLIHPGCTIFENCKSCRNGSWGGTLDDFYVK 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PVPN--VRDPKFYVAGLVSWG--KKCG--TYGIYTKVKNYKDWILQTMQ
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                                                                                                                                                           ---LQYECISPFYRRLGSSRRTCLRTGKWSGRAPSCIP-ICGKIENITAPKTQGLRWPWQ
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Pred. No. 8e-16;
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                                                                                                                     -WLPRÍVĠGEĖ--ASPNS----WPWQ
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-DHNRMLNESTEQIRNIKTIRIHDNYNSETYDNDIALLYLEEPLDLNDFVRPV

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F;444-681/Domain: trypsin homology <TRY F
F;180,412/Binding site: carbohydrate (Asn) (covalent)
F;481,535,637/Active site: His. Asn. Ser #status mond
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Gene: r-gsp
C; Superfamily
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      R;Sakai, H.; Nakashima, S.; Yoshimura, S.; Nishimura, Y.; Sakai, N.; Nozawa, Ngene 209, 87-94, 1998
Gene 209, 87-94, 1998
A;Title: Molecular cloning of a cDNA encoding a serine protease homologous to
A;Reference number: JC6554; MUID:98192519; PMID:9524231
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A; Residues: 1-694 <SAK>
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                                                                                                                                                                TGQNKGWKLRYHGDPIPCPKEISANSIWEPEKAKYVFKD
                                                                                                                                                                                                     SKNFDGFHAIY----
                                                                                                                                                                                                                                                                        DYMCQYDYVEVRDGDNR------DGQIIKRVCGNERPAP--IQSIGSSLHVLFHSDG
                                                                                                                                                                                                                                                                                                         DDMRTCGVNCSGDVFTALIGEIASPNYENPYPENSRCEYQIRLQEGF--RLVLTIRREDF
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                        CQSNGQWSNSRLECQPV--
                                                         CQQNGEWSGK---
                                                                                                                          QRCENLLEERNCSDPGGPVNGYQKITGGPGLINGRHAKIGTVVSFFCNNSYVLSGNEKRT 328
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                                                                                                                                                                                                                                                                                                                                                                                                                   -----NECDSCLIHPGCTIFENCKSCRNGSWGGTLDDFYVKGFYCAECRAGWYGG 123
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EGF homology <EGF>
complement factor H repeat homology <FHR>
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Pred. No. 2.7e-15;
B; Mismatches 244;
                        -DCGVPE-
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A;Status: not compared with conceptual translation A;Molecule type: DNA A;Residues: 356-513,'G',514-688 <TO2>
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                                                    A; Accession: S05634
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655
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681 ILKTMQ 686
                                                                                         V---DSCEGDSGGAFALPVPN--VKDPKFYVAGLVSWG--KKCG--TYGIYTKVKNYVDW
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                                           IERNMK 720
                                                                                                                               TAPSDICTAETGGIAAVSFPGRASPEPRWHLMGLVSWSYDKTCSHRLSTAFTKVLPFKDW
                                                                                                                                                                                  SGWG-RTEIRTNVIQ---LRGAKLPITSLEKCQQVKVENPKARSNDYVFTDNMICAGEKG
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C;Date: 31-Mar-1992 #sequence_revision 31-Mar-1992 #text_change 09-May-2004 C;Accession: A40496; A27381; S00224; S26732; S05634; A05140; A25396; A38407; R;Kusumoto, H.; Hirosawa, S.; Salier, J.P.; Hagen, F.S.; Kurachi, K. Proc. Natl. Acad. Sci. U.S.A. B5, 7307-7311, 1988 A;Title: Human genes for complement components C1r and C1s in a close tail-to A;Reference number: A40496; MUID:89017187; PMID:2459702 complement subcomponent C1s (EC 3.4.21.42) N;Alternate names: C1 esterase precursor C;Species: Homo sapiens (man) A; Accession: A40496 A; Molecule type: mRNA precursor [validated] human tail-to-tail B37820

R;TOS1, M.; Duponchel, C.; Meo, T.; Julier, C.
Biochemistry 26, 8516-8524, 1987

Biochemistry 26, 8516-8524, 1987

A;Title: Complete cDNA sequence of human complement C1s
A;Reference number: A27381; MUID:88163522; PMID:2831944 A;Cross-references: UNIPARC:UPI0000126BF6; R;Tosi, M.; Duponchel, C.; Meo, T.; Julier, A;Residues: 1-688 <KUS> GB:J04080; , C. NID:g179645; PIDN:AAA51852.1;

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A; Accession: A27381

A; Molecule type: mRNA A; Residues: 1-688 < TOS>

A;Cross-references: UNIPARC:UPI0000126BF6; GB:M18767; NID:g179647; PIDN:AAA51853 R;Mackinnon, C.M.; Carter, P.E.; Smyth, S.J.; Dunbar, B.; Fothergill, J.E. Eur. J. Biochem. 169, 547-553, 198.
A;Title: Molecular cloning of cDNA for human complement component Cls. The compl. A;Reference number: S00224; MUID:88082788; PMID:3500856
A;Accession: S00224 ï

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A; Molecule type: mRNA A; Residues: 1-688 < MAC>

A;Molecule type: protein
A;Residues: 16-38;68-116;170-236;246-262;265-280;282-284;287-308,315-363;384-394;421-43
A;Residues: 16-38;68-116;170-236;246-262;20100001728CD; UNIPARC:UPI00001728CE
A;Cross-references: UNIPARC:UPI00001728D4; UNIPARC:UPI00001728D5
BD3; UNIPARC:UPI00001728D4; UNIPARC:UPI00001728D5
R;Tosi, M.; Duponchel, C.; Meo, T.; Couture-Tosi, E.
J. Mol. Biol. 208, 709-714, 1989
A;Title: Complement genes Cir and Cis feature an intronless serine protease domain clos
A;Reference number: 805634; MUID:90040704; PMID:2553984 A; Accession: S26732 UNIPARC: UPI0000126BF6; EMBL:X06596; NID:g29542; PIDN: CAA29817.1;

Types transition of the

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A; Molecule type: protein
A; Rolecule type: protein
A; Residues: 16-25; X', 203-207 < THI>
A; Cross-references: UNIPARC:UPI0000172BF2; UNIPARC:UPI0000172BF3
A; Thielens, N.M.; Van Dozsselaer, A.; Gagnon, J.; Arlaud, G.J.
Biochemistry 29, 3570-3578, 1990
A; Title: Chemical and functional characterization of a fragment of Cls con
A; Reference number: A32672; MUID:90283368; PMID:2141278
A; Rontents: annotation; erythro-beta-hydroxyasparagine site, content
A; Note: about half of the A chains contain erythro-beta-hydroxyasparagine
C; Comment: This protein is a serine proteinase that combines with Clq and C4.
C; Comment: C1s is a dimer of identical chains, each of which is activated
C; Genetics:
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A;Accession: A38407
A;Accession: A38407
A;Accession: A38407
A;Molecule type: protein
A;Residues: 131-134,'X',136-146,'X',148-150;155,'X',157-162;166-170,'X',172-174,'X',176-X',178-402,'X',404-408;416-424,'X',426-431;547-556;592-597;617,'X',619-627,'X',629-635
A;Cross-references: UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3;
B89; UNIPARC:UPI0000172BEA; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BEC; UNIPARC:UPI0000172BE3, B89; UNIPARC:UPI0000172BE3, UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3; UNIPARC:UPI0000172BE3
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A; Residues: 16-61;168-219;287-293,'K',295-334;384-445 <SPY>
A; Cross-references: UNIPARC:UPI0000172BDE; UNIPARC:UPI0000172BDF; 1
A; Cross-references: UNIPARC:UPI0000172BDF; 1
B; Schaller, J; Rickli, E.E.
Biochemistry 30, 2827-2833, 1991
A; Title: Identification of the disulfide bonds of human complement A; Reference number: A38407; MUID:91175725; PMID:2007122
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A;Residues: 438-483,'X',485-500;503-534;542-558;561-572,'A',574-601;617-623;626-644;647-
A;Residues: 438-483,'X',485-500;503-534;542-558;561-572,'A',574-601;617-623;626-644;647-
A;Crose-references: UNIPARC:UPI0000172BD7; UNIPARC:UPI0000172BD8; UNIPARC:UPI0000172BD9-
R;Spycher, S.E.; Nick, H.; Rickli, E.E.
Bur. J. Biochem. 156, 49-57, 1986
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R;Carter, P.E.; Dunbar, B.; Fothergill, J.E.
Biochem, J. 215, 565-571, 1983
A;Title: The serine proteinase chain of human complement component Cls.
A;Reference number: A05140; MUID:84104122; PMID:6362661
A;Accession: A05140
A;Molecule type: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Note: the list of introns may be C;Superfamily: complement-activatin C;Keywords: acute phase; beta-hydro E;1-15/Domain: signal sequence #sta
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A;Title: Human complement
A;Reference number: A25396
A;Accession: A25396
                                                                                                                                                                                                  F:438-688/Product: complement subcomponent C1s chain B (light chain) #status experiments F:438-688/Product: complement subcomponent C1s chain B (light chain) #status experiments F:438-675/Domain: trypsin homology <TRY>
F:65-83,135-147,143-156,158-171,175-202,234-251,294-341,321-354,359-403,386-421,425-549, F:149/Modified site: erythro-beta-hydroxyasparagine (Asn) (partial) #status experimental F:1474,406/Binding site: carbohydrate (Asn) (covalent) #status experimental F:437-438(Cleavage site: Arg-Ile (complement subcomponent C1r) #status experimental F:437-438(Cleavage site: His, Asp, Ser #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                      F;294-354/Domain: complement factor H repeat homology <FH1>
F;359-421/Domain: complement factor H repeat homology <FH2>
F;438-688/Product: complement subcomponent Cls chain B (light chain)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Cross-references: GDB:119730; OMIM:120580
A;Map position: 12p13-12p13
A;Introns: 291/1; 329/3; 356/1; 399/1; 424/1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ;Note: the list of introns may be incomplete;Superfamily: complement-activating serine proteases Cir/Cis/MASP; Cir/Cis;Superfamily: complement-activating serine proteases Cir/Cis/MASP; Cir/Cis;Reywords: acute phase; beta-hydroxyasparagine; calcium binding; complement;1-15/Domain: signal sequence #status predicted <SIG>;11-127/Domain: Cir/Cis repeat homology <CIRI>;16-688/Product: complement subcomponent Cis #status experimental <MAT>;16-437/Product: complement subcomponent Cis chain A (heavy chain) #status;135-171/Domain: EGF homology <EGF>;135-171/Domain: Cir/Cis repeat homology <CIR2>
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                                             Query Match
Best Local Similarity
Matches 163; Conserv
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                                             8.5%;
llarity 21.7%;
Conservative 8:
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                                             83;
                                     Score 334; DB 1;
Pred. No. 7.4e-15;
3; Mismatches 246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of which is activated by
                                                                                                                    Length 688;
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                                                                                                                                                                                                                                                                                                                                   N;Alternate names: enterokinase
C;Species: Homo sapiens (man)
C;Date: 19-May-1995 #sequence_revision 09-Aug-1996 #text_change
C;Accession: A56318; B43090
R;Kitamoto, Y; Veile, R.A.; Donis-Keller, H.; Sadler, J.E.
Biochemistry 34, 4562-4568, 1995
Birtle: cDNA sequence and chromosomal localization of human ent
A;Reference number: A56318; MUID:95234679; PMID:7718557
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A56318
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A;Reference number: A43090; MUID:94329561; A;Accession: B43090
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314 RDVVQITCLDGFEVVEGRVGATSFYSTCQSNGKWSNSXLKCQPV---DCGIP-----
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VSWSYDKTCSHRLSTAFTKVLPFKDWIERNMK 720
                                                              VEK--PTADAEAYVFTPNMICAGGE--KGMDSCKGDSGGAFAVQDP---NDKTKFYAAGL
                                                                                                                                 EDHGIPVS-----VTDNMFCASWEPTAPSDICTAETGGIAAVSFPGRASPEPRWHLMGL
                                                                                                                                                                                                                                                                     PICLAASRDLSTSFQESHITVAGWNVLADVRSPGFKND---TLRSGVVSVVDSLLCEEQH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RRTSGVHDGSLHKGAWFLV-----CSGALVNERTVVVAAHCVTDLGKVTMIKTADLKVVL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PYYYMENGGGGEYHCAGNGSWVNEVLGPELPKCVPVCG-----VP----REPFEEK--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RVLPMQVQSRETPLHQLYSAAFSKQKLQSAPTKKP-ALPFGDLPMGYQHLHTQLQYBÇIS
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enteropeptidase (EC 3.4.21.9) precursor [validated]

09-Jul-2004

enterokinase,

the

proteoly

A;Molecule type: mRNA
A;Residues: 1-1019 <KKT>
A;Residues: 1-1019 <KKT>
A;Cross-references: UNIPROT:P98073; UNIPARC:UPI000003FE65; GB:
R;Kitamoto, Y.; Yuan, X.; Wu, Q.; McCourt, D.W.; Sadler, J.E.
Proc. Natl. Acad. Sci. U.S.A. 91, 7588-7592, 1994
A;Title: Enterokinase, the initiator of intestinal digestion, GB:U09860; .E. NID:g746412; PIDN

8 ø mosaic

PMID:8052624

protease

Comp

acid sequence not shown

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A;Description: cleaves activation peptide from trypsinogen to produce active trypsin A;Pathway: intestinal digestive hydrolase cascade C;Superfamily: enteropeptidase; Clr/Cls repeat homology; LDL receptor ligand-binding C;Keywords: glycoprotein; hydrolase; serine proteinase; transmembrane protein; zymog F;1-784/Product: enteropeptidase heavy chain #status predicted <HCH>F;22-38/Domain: transmembrane #status predicted <TMM>F;22-38/Domain: LDL receptor ligand-binding repeat homology <LDL1>F;342-504/Domain: LDL receptor ligand-binding repeat homology <LDL1>F;342-504/Domain: LDL receptor ligand-binding repeat homology *LDL2>F;678-783/Domain: LDL receptor ligand-binding repeat homology *LDL2>F;678-783/Domain: Bcavenger receptor cysteine-rich domain homology #status atypical F;785-1014/Domain: trypsin homology <TRY>F;116.147,179,328,335,388,440,470,503,534,630,682,706,725,848,887,909,949/Binding si F;772-896,810-826,910-977,941-956,967-995/Disulfide bonds: #status predicted
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A; Residues: 749-1019 < K12>
A; Cross-references: UNIPARC: UPI0000172B0B; GB: U09860
A; Comment: The mechanism of association with the membrane of the intestinal otated below) or with amino-terminal myristoylation of the heavy chain.
C; Genetics:
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A;Map position: 21q21-21q21
C;Complex: Mature enteropep
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     GDSGG
                                    AETGGIAAVSFPGRASPEPRWHLMGLVSWSYDKTCSHRLSTAFTKVLPFKDWIE
                                                                                                          VLADVRSPGFKNDTLRSGVVSVVDSLLCEEQHEDHGIPVSVTDNMFCASWEPTAPSDICT
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                                                                       T---VVYQGTTANILQEADVPLLSNERCQQQMPEY----NITENMICAGYE-EGGIDSCQ
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PLMCQENNRWFLAGVTSFGYKCALPNR-PGVYARVSRFTEWIQ
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Pred. No. 1.
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C;Punction:
A;Description: cleaves activation peptide from trypsinogen to produce active trypsin A;Description: cleaves activation peptide from trypsinogen to produce active trypsin A;Pathway: intestinal digestive hydrolase cascade
C;Superfamily: enteropeptidase; Clr/Cls repeat homology; LDL receptor ligand-binding re;
C;Keywords: glycoprotein; hydrolase; serine proteinase; transmembrane protein; zymogen
F;22-38/Domain: transmembrane #status predicted <MCH>
F;22-38/Domain: tenteropeptidase mini chain #status predicted <MCH>
F;118-799/Product: enteropeptidase heavy chain #status predicted <HCH>
F;118-799/Product: enteropeptidase heavy chain #status predicted <HCH>
F;118-799/Product: enteropeptidase heavy chain #status predicted <HCH>
F;537-519/Domain: MAM homology <MAM>
F;541-646/Domain: MAM homology <MAM>
F;558-692/Domain: Clr/Cls repeat homology <Clr>
F;658-692/Domain: LDL receptor ligand-binding repeat homology <LDL2>
F;658-692/Domain: scavenger receptor cysteine-rich domain homology #status atypical <SR
F;800-1034/Product: enteropeptidase light chain #status predicted <LCH>
F;116,147,170,194,283,343,350,403,455,485,518,549,645,697,701,721,740,761,804,863,902,9
F;186-91,885-841,925-992,956-971,982-1010/Disulfide bonds: #status predicted
F;840,891,986/Active site: His, Asp, Ser #status predicted
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C;Complex: Mature enteropeptidase is variously reported to contain two (heavy and light) ed by a disulfide bond. Possibly, conversion from membrane-bound to soluble forms involved by a disulfide bond. Possibly, conversion from membrane-bound to soluble forms involved by a disulfide bond.
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N;Alternate names: enterokinase
C;Species: Sus scrofa domestica (domestic pig)
C;Date: 07-Oct-1994 #sequence_revision 09-Aug-1996;
C;Accession: A53663
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A;Title: Structural characterization of porcine enteropeptidase A;Reference number: A53663; MUID:94327548; PMID:8051081
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                                                             LHKGAWFLVCSGALVNERTVVVAAHCVTDLGKVTMIKTADLKVVLGKFYRDDDRDEKTIQ 539
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                                                                                                                                                                                                       RRTCLRTGKWSGRAPSCIPICGKIENITAPKTQGLR-----WPWQAAIYRRTSGVHDGS
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protein C (activated) (EC 3.4.21.69) pr
N;Alternate names: vitamin K-dependent
C;Species: Mus musculus (house mouse)
C;Date: 10-Sep-1999 #sequence_revision
C;Accession: JX0210
R;Tada, N.; Sato, M.; Tsujimura, A.; Iw
J. Biochem. 111, 491-495, 1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8.
C;Superfamily: coagulation factor X; EGF homology; Gla domain homology; try C;Keywords: beta-hydroxyaspartic acid; blood coagulation; calcium binding; F;1-33/Domain: signal sequence #status predicted <SIG>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Title: Isolation and characterization of a mouse protein C cDNA. A;Reference number: JX0210; MUID:92316897; PMID:1618739 A;Accession: JX0210
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F;199-211/Domain: activation peptide #status predicted <ACT>
F;212-461/Product: vitamin K-dependent serine proteinase #status predicted <VIT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Molecule type: mRNA
A; Residues: 1-461 < TAI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ;212-445/Domain: trypsin homology <TRY>,
47,48,55,57,60,61,66,67,70,76/Modified site: gamma-carboxyglutamic acid (Glu);47,48,55,57,60,61,66,67,70,76/Modified site: erythro-beta-hydroxyaspartic acid (Asp) #status predicted;121-130,139-150,146-159,161-174,182-319,238-254,373-387,398-426/Disulfide bond;214,290,355/Binding site: carbohydrate (Asn) (covalent) #status predicted;253,299,402/Active site: His, Asp, Ser #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ;34-41/Domain: propeptide #status predicted <PRO>;42-196,199-461/Product: protein C #status predicted ;42-196/Domain: light chain #status predicted <PCL>;91-130/Domain: EGF homology <EG1>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 139-174/Domain: EGF homology <EG2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Experimental source: liver
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cross-references: UNIPROT: P33587; UNIPARC: UPI00000278D0; GB:D10445;
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Best Local :
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197
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                                                                                                                                                                                                                                                                                      63
                                                                                                                                                                                                                                                                                                                                                                                   14
                                                                                                                                                                                                                                 YKCACLAGYTGQRCENLLEERNCSDPGGPVNGYQKITGGPGL-----INGRHAKIGTVV
                                                                                                                                                                                                                                                                                                                                                                                WGISSIPAHPDPVFSSSEHAHQVLRVRRANSFLE-----EMRPG-SLERECMEEI
                                                                                                                                                                                                                                                                                                                                                                                                                             WTI-----HAKPGF-----VIQLRFVMLSLEFDYMCQYDYVEVRDGDNRDGQIIKRV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DICTAETGGIAAVSFPGRASPEPRWHLMGLVSWSYDKTCSHRLSTAFTKVLPFKDWIE 716
                                                                                                                                                                                                                                                                                                                                CGNERPAPI-QSIGSSLHVLFHSDGSKNFDGFHAIYEEITACSSSPCFHDGTCVLDKAGS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGWGKVIYQGSPA---DILQEADVPLLSNEKCQQQMPEY----NITENMMCAGYE-EGGI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGWNVLADVRSPGFKNDTLRSGVVSVVDSLLCEEQHEDHGIPVSVTDNMFCASWEPTAPS
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                                        QSRETPLHQLYSAAFSKQKLQSAPTKKPALPFGDLPMGYQHLHTQLQYECISPFYRRLGS
                                                                                                                                    SFFCNNSYVLSGNEKR-----TCQQNGEWSGKQPICIKACREPKISDLVRRRVLPMQV
                                                                                                                                                                                    FSCSCDKGWEGKFCQQELRFQDC-----RVNNGGCLHYCLEESNGRRCA----
                                                                                                                                                                                                                                                                                 CDFEEAQEIFQNVEDTLAFWI-----KYFDGDQCSAPPLDHQCDSPCCGHGTCI-DGIGS
                                                                                          -CAPGYELADDHMRCKSTVNFPCGKLGRWIEK--
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 320; DB 1; I
Pred. No. 4.2e-14;
O; Mismatches 174;
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C;Complex: ma
lfide linked
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A;Cross-references: UNIPROT:P98072; UNIPARC:UPI000004BBB5;
A;Cross-references: uniPROT:P98072; UNIPARC:UPI000004BBB5;
A;Experimental source: small intestine
R;LaVallie, E.R.; Rehemtulla, A.; Racie, L.A.; DiBlasio, E.
J. Biol. Chem. 268, 23311-23317, 1993
A;Title: Cloning and functional expression of a cDNA encodi
A;Reference number: A48874; MUID:94043122; PMID:8226855
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                                                                                                                                                             C; Function:
                                                                                                                                                                                                                                                                                                                                                                              A; Accession: A61436
                                                                                                                                                                                                                                                                                                                                                                                                                           A; Title: The amino-terminal
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545 AIILHPNYDPILLDADIAILKLLDKARISTRVQPICL----AASRDLSTSFQESHITVAG
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                                                      709 LPFKDWI
GSYLKWI
                                                                                                                                                                                                                               WGYQSDRIKDGRRNRTFILTFIRIPLVARNECVEVMKNV----
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                                                                                                               AGIIGNT-RDACDGDSGGPMVVFFRG-----TWFLVGLVSWG--EGCGHTNNYGIYTKV
                                                                                                                                                                   ASWEPTAPSDICTAETGGIAAVSFPGRASPEPRWHLMGLVSWSYDKTCSHRLSTA-FTKV
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N; Alternate names: enterokinase (EC 3.4.21.9) precursor [validated] bovine

C;Species: Bos primigenius taurus (cattle)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change
C;Accession: A43090; A48874; A61436
R;Kitamoto, Y.; Yuan, X.; Wu, Q.; McCourt, D.W.; Sadler, J.E.
Proc. Natl. Acad. Sci. U.S.A. 91, 7588-7592, 1994
A;Title: Enterokinase, the initiator of intestinal digestion, is
A;Reference number: A43090; MUID:94329561; PMID:8052624 09-Jul-2004

18 Ø mosaic protease

comp

acid sequence not shown; translated from GB/EMBL/DDBJ

GB:U09859; NID:g746410;

E.A.;

c.;

K.L.;

the

catalytic

subunit

얁

of a cDNA encoding PMID:8226855

A;Molecule type: mRNA
A;Residues: 801-1035 <LAV>
A;Residues: 801-1035 <LAV>
A;Cross-references: UNIPARC:UPI000011133D; GB:L19663; NID:g416131; PIDN:AAA16035.1;
A;Note: parts of this sequence, including the amino end of the mature protein, were
R;Light, A.; Janska, H.
J. Protein Chem. 10, 475-480, 1991 con

sequence of the catalytic subunit MUID:92189715; PMID:1799406

얁

bovine

enterokinase

A; Reference number: A61436;

of the intestinal brush

borde

may involve contain two (heavy and light)

A,Description: cleaves propeptide from trypsinogen to produce active trypsin A,Pathway: intestinal digestive hydrolase cascade C,Superfamily: enteropeptidase, CTC1s repeat homology; LDL receptor ligand-bind C,Keywords: glycoprotein, hydrolase; intestine, serine proteinase; transmembrane F;22-38/Domain: transmembrane #status predicted <TMM>
F;52-117/Product: enteropeptidase mini chain #status predicted <MCH> receptor ligand-binding

protein

F;118-800/Product: enteropeptidase heavy chain #status predicted <HCH>

```
coagulation factor Xa (EC 3.4.21.6) precursor - W,Alternate names: virus-activating proteinase C;Species: Gallus gallus (chicken)
C;Date: 12-Feb-1993 #sequence revision 07-Feb-19 C;Accession: S15838, S20380; S20381
R;Suzuki, H.; Harada, A.; Hayashi, Y.; Wada, K.; FEBS Lett. 283, 281-285, 1991
                                                                                                                                                                                                                                                                                                  RESULT
EXCH
                                                                                                  A;Title: Primary structure of the virus activating protease A;Reference number: S15838; MUID:91257322; PMID:2044767 A;Accession: S15838
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                    ;Status: not compared with ;Molecule type: mRNA;Residues: 1-475 <SUZ>;Cross-references: UNIPROT:
        ;Gotoh,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
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    Yamauchi,
                                                                                                                                                                                                                                                                                                                                                                             GDSGG-----PLMCQENNRWLLAGVTSFGYQCALPNR-PGVYARVPRFTEWIQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SYPNOAFCIWNLNAQKGKNIQLHF----QEFDLENIADVVEIRDGEGDDSLFLAVYTG--
                                                                                                                                                                                                                                                                                                                                                                                                                    AETGGIAAVSFPGRASPEPRWHLMGLVSWSYDKTCSHRLSTAFTKVLPFKDWIE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DQIVINPHYNKRRKNNDIAMMHLEMKVNYTDYIQPICLPEENQV---FPPGRICSIAGWG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SAIILHPNYDPILLDADIAILKLLDKARISTRVQPICLAASRDLSTSFQESHI-TVAGWN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AWFLVCSGALVNERTVVVAAHCVTDLGKVTMIKTADLKVVLGKFYRDDDRDEKTIQSLQI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RAPSCIPI-----CGK--IENITAPKTQG-----LRWPWQAAIYRRTSGVHDGSLHKG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AFSKQKLQSAPTKKPALPFGDLPMGYQHLHTQLQYECISPFYRRLGSSRRTCLRTGKWSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SYVLSGNEKRTCQQNGEWSGKQPICIKACREPKISDLVRRRVLPMQVQSRETPLHQLYSA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        YKCACLAGYTGQRCENLLEERNCSDPGGPVNGYQKITGGPGLINGRHAKIGTVVSFFCNN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RPAPIQSIGSS----LHVLFHSDGSKNFDGFHAIYEEITACS-SSPCFHDG-TCVLDKAGS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SYPLNAHCEWTIHAKPGFVIQLRFVMLSLEFDYMCQYDYVEVRDGDNRDGQIIKRVCGNE 202
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ALI---YQGSTADVLQEADVPLLSNEKCQQQMPEY----NITENMVCAGYE-AGGVDSCQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VLADVRSPGFKNDTLRSGVVSVVDSLLCEEQHEDHGIPVSVTDNMFCASWEPTAPSDICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -----GLGTGNSSVPTFSTGGGP--YVNLNT-----APNGSLILTPSQQCLE-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -ECIPLVNL---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 - PGPVNDVFSTTNRMTVLFITDNMLAKQGFKANFTTGYGLGIPEPCKEDNFQC---KDG-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              --DSLILLQCNYKSCGKKLVTQEVSPKIVGGSDSREGAWPWVVALY-----FDDQ----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -OVCGASLVSRDWLVSAAHCV--YGR--NMEPSKWKAVLG-LHMASNLTSPQIETRLI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8.0%; Score 317.5; DB 1; larity 24.6%; Pred. No. 1.5e-13; Conservative 80; Mismatches 225;
UNIPROT:P25155; UNIPARC:UPI000012A408; DDBJ:D00844; hi, F.; Ogasawara, T.; Nagai, Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ----ACAEN--WT------TQISDDVCQLL---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CDGFPHCKDGSDEAHCVRLFNGTTDSSGLVQFRIQSIWHV-----
                                                                               conceptual
                                                                               translation
                                                                                                                                                                             Wada, K.;
                                                                                                                                                                                                                  07-Feb-1997 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                               chicken
                                                                                                                                                                             Asaka,
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                    NID:g222869;
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C; Superfamily: cc
C; Keywords: beta-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Cross-references:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: protein A; Residues: 41-55 < GO2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; Function:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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  682
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        similarity 22.2%;
                                                                                                                                                                                                                    -- VVDSLLCEEQHEDHGIPVSVTDNMFCASWEPTAPSDICTAETGGIAAVSFPGRASPEP
                                                                                                                                                                                                                                                                                                                                                                                                                                     SVILPTNSNTNATSDQDVPSTNGSILEEVFTTTTESPTPP-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCFHDGTCVLDKAGSYKCACLAGYTGQRCENLLEERNCSDPGGPVNGYQKITGGPGLING
                                                                                                                                                                                                                                                                                                                                                           ----PRNGSS---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -RVLPMQVQSRETPLHQLYSAAFS-KQKLQSAPTKKPALPFGDLPMGYQHLHTQLQYECI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMKQGN-----IERECNEERCSKEEAREA-----FEDNEKT-EEFWNIYVDGDQCSSN
                                    VPYVDRSTCKQSTN----FAITENMFCAGYE-TEQKDACQGDSGG-----
                                                                                                                                                         DLSTSFQESHITVAGWNVLADVRSPGFKNDTL---RSGVVS------
                                                                                                                                                                                              EVDREKEEHSETTHTAE--KIFVHSKYIAETYDNDIALIKLKEPIQFSEYVVPACLPQA-
                                                                                                                                                                                                                                                                                                                    AAIYRRTSGVHDGSLHKGAWFLVCSGALVNERTVVVAAHCVTDLGKVTMIKTADLKVVLG
                                                                                                                                                                                                                                                                                                                                                                                                SPFYRRLGSSRRTCLRTGKWSGRAPSCIPICGKIENITAPKTQGL-----RWPWQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RHAKIGTVVSFFCNNSYVLSGNEKRTCQQNGEWS--GKQPICIKACREPKISDLVRR---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PCHYGGQC-KDGLGSYTCSCLDGYQGKNCEFVIPK-----YCKINNGD-----
  RWHLMGLVSWSYDKTCSHR-LSTAFTKVLPFKDWIERNMK 720
                                                                                                                                                                                                                                                                             AVLIN-----EKGEEF--CGGTILNEDFILTAAHCIN--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          coagulation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -CEQFCSIKKSVQKDVVCSCTSGYELAEDGKQ--CVSKVKYPCGKVLMKRIKR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       79;
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Mismatches

177;

Indels

195;

Gaps

242

93

-DFANEVLMNQKSGMVSGFGREFEAGRLSKRLKVLE

ITDPNVDTRI VGGDECRPGECPWQ

225

415

185

357 135

465

-QSKEIKVVVG

295 525 255

585

623

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F;41-185/Product: coagulation factor X light chain #status experimental <LCH>
F;90-121/Domain: EGF homology <EGI>
F;129-167/Domain: EGF homology <EGI>
F;186-475/Product: coagulation factor X heavy chain #status predicted <HCH>
F;186-240/Domain: activation peptide #status predicted <APT>
F;241-475/Product: coagulation factor Xa heavy chain #status experimental <AHC>
F;241-465/Domain: trypsin homology <TRY>
F;241-468/Domain: trypsin homology <TRY>
F;46,47,54,56,59,60,65,66,69,72,75,79/Modified site: gamma-carboxyglutamic acid F;46,47,54,56,59,60,61,12-121,129-140,136-152,154-167,175-348,247-252,267-283,39
F;103/Modified site: erythro-beta-hydroxyaspartic acid (Asp) #status predicted F;196,207,228,285/Binding site: carbohydrate (Asm) (covalent) #status predicted F;282,328,425/Active site: His, Asp, Ser #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        F;21-40/Domain: propeptide #status predicted <PRO>F;25-84/Domain: Gla domain homology <GLA>F;41-185/Product: coagulation factor X light chain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Accession: S20381
A;Molecule type: protein
A;Residues: 241-246; X',248-251,'X',253-261
A;Cross-references: UNIPARC:UPI00000FCE9E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Title: Isolation of factor Xa from chick embryo as the amniotic endoprotease responsil A;Reference number: S20380; MUID:92164779; PMID:1537403 A;Accession: S20380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Description: catalyzes the proteolytic activation of prothrombin to thrombin in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEBS Lett.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ;Superfamily: coagulation factor X; EGF homology; Gla domain homology; trypsin homology; keywords: beta-hydroxyaspartic acid; blood coagulation; calcium binding; carboxyglutau; 1-20/Domain: signal sequence #status predicted <SIG>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             296,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       UNIPARC: UPI00000FCE9E
Score 314.5, DE
Pred. No. 1e-13;
                                   DB 1;
                                        Length 475;
                                                                                                                                                                                                                                                         ,396-410
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Qy 458 QGLR ; Db 600 KNCDCGLRSFTKQ	Qy 398 DLPMGYQHLHTQL	Qy 338 KQPICIKACREPK:	Qy . 282 DPGGPVNGYQKITV	Qy 251 VL i b 465 IRKDLRCDGWADC	Qy 196 KRVCGNERPAPIQ :: : Db 407 EKFCGERSQFVVS:	Qy 140 LLESYPLNAHCEW Db 359HYPPNINCTW	Qy 82 HPGCTIFENCK:	Query Match 7. Best Local Similarity 21. Matches 151; Conservative	A;Gene: mt-spl A;Map position: basolateral cell surface C;Superfamily: membrane-bound arginine-specific C;Keywords: protein digestion	A;Molecule type: mRNA A;Residues: 1-855 <sat> A;Cross-references: UNIPARC:UPI00000EBACO; C;Comment: This enzyme, an epithelial-deri of specific proteins or peptides on the b lial migration and/or cell loss. C:Genetics:</sat>	: 1-855 <kis> ferences: UNIII ferences: UNIII ferences: Yamasaki, lophys. Res. (lophys. Res. (role for menh runber: JC77 Small intest n: JC7775</kis>	RESULT 15 JC7731 membrane-bound arginine-specific ser: C;Species: Rattus norvegicus (Norway C;Date: 14-Dec-2001 #sequence_revisi C;Accession: JC7731; JC7775 R;Kishi, K.; Yamazaki, K.; Yasuda, I J. Biochem. 130, 425-430, 2001 A;Title: Characterization of a membrane A;Reference number: JC7731; MUID:214; A;Rocession: JC7731 A;Molecule type: mRNA
QGLR	DLÞMGYQHLHTQLQYECISÞFYRRLGSSRRTCLRTGKWSGRAÞSCIÞICGKIENITAÞKT 	KQPICIKACREPKISDLVRRRVLPMQVQSRETPLHQLYSAAFSKQKLQSAPTKKPALPFG ; ; CDNVNAVSC	DPGGPVNGYQKITGGPGLINGRHAKIGTVVSFFCNNSYVLSGNEKRTCQQNGEWSG	VL	KRVCGNERPAPIQSIGSSLHVLFHSDGSKNFDGFHAIYBEITACSSSPCFHDGTC::	LLESYPLNAHCEWTIHAKPGFVIOLRFVMLSLEFDYMCQYDYVEVRDG 	HPGCTIFENCKSCRNGSWGGTLDDFYVKGFYCAECRAGWYGGDCMRCGQVLRAPKGQI 	9%; Score 313; DB 2; Length 4%; Pred. No. 2.4e-13; 78; Mismatches 227; Indel	serine	olecule type: mRNA esidues: 1-855 <sat> ross-references: UNIPARC:UPI00000E8ACO; DDBJ:AB037898 nmment: This enzyme, an epithelial-derived, type II integral specific proteins or peptides on the brushborder membranes. I migration and/or cell loss.</sat>	000EBACO; Y.; Iwanag 1 (MT-SP1)	ic serine proteinase precursor Norway rat) revision 14-Dec-2001 #text_cha uda, I.; Yahagi, N.; Ichinose, membrane-bound arginine-speci ID:21421307; PMID:11530019
HKGAWFLVCSGALVN 495 : : : HLCGASLIS 647	IPICGKIENITAPKT 457	KLQSAPTKKPALPFG 397	-SGNEKRTCQQNGEWSG 337	EERNCS 281 	SSPCFHDGTC 250 NDPCPGMFMCKTGRC 464	-CQYDYVEVRDGDNRDGQII 195 CTKDYVBING 406	CMRCGQVLRAPKGQI 139	855; ls 250; Gaps 33;	proteinase	yral membrane serine protease nes. It also participates in	DDBJ:AB049189 3a, T.; Fushiki, T. in intestinal epithelial turn	c - rat nnge 09-Jul-2004 M.; Tsuchiya, Y.; Athauda, Ific serine protease from rat

DЪ	δ	рb	Ş	Дb	Q	DЬ	Ş
813	672	759	613	704	553	648	496
EKDGRIFQAGVVSWGEGCAQRNKPGVYTRIPEVRDWIK 850	SFPGRASPEPRWHLMGLVSWSYDKTCSHRLST-AFTKVLPFKDWIE 716	GALILQKGEIRVINQTTCEELLPQQITPRMMCVGF-LSGGVDSCQGDSGGPLSSV 812	KNDTLRSGVVSVVDSLLCEEQHEDHGIPVSVTDNMFCASWEPTAPSDICTAETGG-IAAV 671	704 NDFTFDYDIALLELEKPAEYSTVVRPICLPDNTHVFPAGKAIWVTGWGHTKEGGT 758	553 DPILLDADIAILKLLDKARISTRVQPICLAASRDLSTSFQESHITVAGWNVLADVRSPGF 612	PDWLVSAAHCFQDETIFKYSDHTMWTAFLG-LLDQSKRSASGVQEHKLKRITHPSF 703	496 ERTVVVAAHCVTDLGKVTMIKTADLKVVLGKFYRDDDRDEKTIQSLQISAIILHPNY 552

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                                                               ABG95869 standard; protein; Human secreted/transmembrane US2002119130-A1.
                                                                                                                                         WO200073454-A1.
07-DEC-2000.
                                                                                                                                                             AAB65218 standard; protein;
Human PRO1344 (UNQ699) prote
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                                                                                                                                                                                                                                                    Human PRO1344.
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ABU85662 standard; protein;
Human PRO polypeptide #85.
US2003036140-A1.
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Human PRO1344 polypeptide.
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                             Novel human secreted and transmembrane US2003018173-A1.
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20-FEB-2003.
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Human secreted/transmembrane
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Human PRO polypeptide #85.
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US2003027269-A1.
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US2003032137-A1.
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Novel human secreted
US2003027986-A1.
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US2003040076-A1.
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US2003054455-A1.
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US2003054473-A1.
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US2003064465-Al.
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Human secreted polypeptide F
US2003059880-Al.
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US2003054478-A1.
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ABM04926 standard; protein;
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(GETH) GENENTECH

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                                                   ABM15291 standard; protein;
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Human secreted polypeptide
US2003087374-A1.
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                                                                     ABO50252 standard; protein; Thuman secreted/transmembrane
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US2003068740-A1.
          ABU99246 standard;
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US2003064457-A1.
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US2003073169-A1.
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Human secreted polypeptide PRO1344,
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US2003073185-A1.
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Human secreted poly
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                US2003054458-A1.
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Human secreted polypeptide F
US2003054460-A1.
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                                                   ABO29724 standard; protein; 'Human secreted/transmembrane
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US2003068736-A1.
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Human secreted poly
US2003040078-A1.
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Human secreted pol:
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Human secreted/transmembrane
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Human secreted poli
US2003040059-A1.
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US2003064449-A1.
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US2003032132-A1.
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Human secreted polypeptide PRO1344,
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                                                             ABM19930 standard;
Human secreted poly
US2003104554-A1.
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Human secreted polypeptide |
US2003104545-A1.
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Human secreted pol)
US2003068696-A1.
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US2003104541-A1.
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US2003073174-A1.
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Human secreted polypeptide PR01344,
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13-MAR-2009
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US2003036129-A1.
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Human secreted poly
US2003040057-A1.
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US2003032133-A1.
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Human secreted polypeptide |
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Human secreted pol
US2003064469-A1.
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US2003054466-A1.
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US2003049738-A1.
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US2003059879-A1.
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US2003032126-A1.
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Human secreted/transmembrane
US2003049748-A1.
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US2003045700-A1.
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Human secreted polypeptide
US2003068769-A1.
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Human secreted/transmembrane
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Human secreted polypeptide PRO1344,
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US2003104550-A1.
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US2003068764-A1.
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Human secreted polypeptide
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Human secreted poly
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Human secreted polypeptide PRO1344,
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US2003054457-A1.
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Human secreted/transmembrane
US2003049638-A1.
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Human secreted/transmembrane
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Human secreted/transmembrane US2003064459-A1.

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Human secreted polypeptide I
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                                            ABM32130 standard; protein; 720 AA.
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Novel human secreted and transmembrane
US2003180948-A1.
      ADH77917 standard; protein;
Human PRO polypeptide #19.
US2003181666-A1.
25-SEP-2003.
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Novel human secreted and transmemb!
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                                                                       ADI05402 standard; protein; 720 AA. Novel human secreted and transmembrane US2003190716-A1.
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US2003181679-A1.
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                              ADL93722 standard; protein; 720 AA. Novel human secreted and transmembrane US2003040013-A1.
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US2003073821-A1.
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Novel human secreted and transmembrane
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) GENENTECH INC.
100.0%; ;
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GERRITSEN
GODDARD A.
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GODOWSKI P J.
GRIMALDI J C.
GURNEY A L.
WATANABE C K.
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GERRITSEN M E.
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                                      GENENTECH INC.
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e protein, #133
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No. 1.9e-204;
3945; DB 10;
No. 1.9e-204;
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Best Loca
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Best Loca
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ID AAU00401 standard;
DE Human secreted prot
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 Best Local Similarity
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Best I
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/ EATON D L.
// FILVAROFF E.
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./DD/) GODDARD A.
./DD/) GODDARD A.
./DD/) GODREST P J.
./GRIM/) GRIMALDI J C.
./GURN/) GURNEY A L.
./WATANABE C K.
./WOOD/) WOOD M I.
./Th.
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(GETH ) GENENTECH INC.
                                                                                                                                                                                      Human PRO2 protein WO200110902-A2.
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                                                     ADH89028 standard; protein;
Human POLYX polypeptide #13
                                                                                                                 Human secreted WO200119856-A2.
                                                                                                                                                                                                        AAB70532 standard;
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US2006099657-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AEH43591 standard; protein;
                 (SHIM/)
(FERN/)
                                           US2003198958-A1.
                                                    Human POLYX polypeptide
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V/) FILVAROFF E.

R/) GERRITSEN M E.

D/) GODDARD A.

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M/) GURNEY A L.

N/) GURNEY A L.

N/) WATANABE C K.

D/) WOOD W I.
SHIMKETS R A. FERNANDES E. HERRMANN J L. LIU X.
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                                                                                                CURAGEN CORP.
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secreted and tra
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protein, POLY13.
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amino acid
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99.7%;
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transmembrane
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EQ ID
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Pred. No. 40
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Pred. No. 46
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No. 1.9e-204;
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4e-204;
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Best
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                                                                                                                                                                                                                                                                                                     Query Match
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Human TANGO 215 protein.
WC200018904-A2.
                                                                                                                                             Antipsoriatic pr
WO2004028479-A2.
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ry Match 99.4%;
t Local Similarity 97.6%;
                                                                                                                                                                                                                                                                                                                                     Human protein sequence EP1074617-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                            Human serine pr
WO200109349-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                AAB85891 standard;
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US2006141575-A1.
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(SMIT/)
(RAST/)
                                                     ADS85034 standard;
Human atopic dermat
WO2004031386-A1.
                                                                                                                                                                   ADN04640 standard;
                                                                                                                                                                                                                                              WO2003087768-A2.
                                                                                                                                                                                                                                                        ADJ69990 standard; protein;
Human heat mitochondrial pr
                                                                                                                                                                                                                                                                                                                                                            AAB93670 standard;
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ry Match 99.4%;
t Local Similarity 97.6%;
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                   (GENO-) GENOX RES INC.
                                                                                                                                                                                                           (MITO-) MITOKOR.
(BUCK-) BUCK INST AGE
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                                                                                                                                                                                        ocal Similarity
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Local Similarity
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SMITHSON
RASTELLI
                                                                                                                       GENENTECH INC
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n 99.5%; Score 3926.5; DB 9
Similarity 97.7%; Pred. No. 1.9e-203;
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protease-like prote
                                                                ndard; protein; 737 dermatitis-related
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protein sequer
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99.7%; Pred.
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Pred. No. 3.6e-203;
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Pred. No. 3.6
Score 3921.5; DB 8 Pred. No. 3.6e-203;
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NO:13202.
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No. 3.6e-203;
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4e-204;
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3.6e-203;
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.9e-204;
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-203;
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                                           WO200208396-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human serine pr
WO200109349-A1.
                                                    AAE19180 standard; protein; 649 Human protease, PRTS-17 protein.
                                                                                   (MILL-) MILLENNIUM PHARM INC

xy Match 91.0%;

t Local Similarity 89.9%;
                                                                                                                                         Murine TANGO
                                                                                                                                                                               06-APR-2000.
(MILL-) MILLENNIUM BIOTHERAPEUTICS INC.
91.3%; Score 3602.5;
                                                                                                                                                                                                                               Murine TANGO
                                                                                                                                                                                                                                                                                  08-FEB-2001.
(HELI-) HELIX RES
                                                                                                                                                                                                                                                                                                                                                                                                     AEI68141 standard; protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mouse regeneration-associated JP2005073574-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AEI68109 standard;
Human TANGO 215 ma
                                                                                                                                                   AEI68169 standard; protein;
                                                                                                                                                                                                                  WO200018904-A2.
                                                                                                                                                                                                                                        AAB09927 standard;
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WO200109349-A1.
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WO2004031386-A1.
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                                                                                                                                                                Local Similarity 693
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satch 91.7%;
cal Similarity 90.3%;
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INCYTE GENOMICS INC.

n 88.7%;
Similarity 90.0%;
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91.7%; Score 3617; DB 9;
milarity 90.3%; Pred. No. 8.9e-187;
                                                                                                                                                                                                                          ndard; protein;
215 protein.
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protease-like protein
<sub>A</sub>1
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No. 1.7e-186;
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5.4e-186;
  1.5e-180;
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.2e-185;
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Human gene 5 encoded secreted p
WC200218435-A1.
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Human polypeptide
WO200153312-A1.
                                                                                                                                                                                         ADL77919 standard; protein; 455 Albumin fusion protein related t US2004010134-Al.
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Human CD-like molecule
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WO200061774-A2.
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                                                  ADL06662 standard;
Human 3T3 cell con
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        SHANGHAI XINSHIJIE GENE TECHN DEV h 52.2%; Score 2059; Similarity 95.6%; Pred. No. 4.5
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9.4e-151;
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SG42456-A1
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Human polypeptide
WO200153312-A1.
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Human EST encoded
WO200154477-A2.
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Human gene 5 encode
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WO2003002976-A2.
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Albumin fusion protein related therapeutic
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WO200177137-A1.
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No. 2.7e-84;
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No. 2.7e-84;
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WO9915676-A1.
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SG42456-A1.
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Horseshoe crab Factor C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAY42490 standard; protein; 1019 AA.
Recombinant N-terminally truncated Horseshoe crab
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ry Match 16.9%;
t Local Similarity 25.4%;
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Horseshoe crab Fact
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                                                                                                                                                      AAY05749 standard; protein;
Horseshoe crab Factor C.
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WO2003002976-A2.
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ry Match 16.9%;
t Local Similarity 25.4%;
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                                                                      AAW94301 standard; protein; 1083 AA.
Horseshoe crab Factor C protein #1.
                                                                                                   (UYSI-) UNIV SINGAPORE NAT.
ry Match 16.9%;
t Local Similarity 25.4%;
                                                                                                                                                                                    (UYSI-) UNIV SINGAPORE NAT.

CY Match 16.9%;
Local Similarity 25.4%;
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TY Match 16.9%;
Local Similarity 25.4%;
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h 16.9%;
Similarity 25.4%;
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Factor C protein #
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e crab factor C
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16-NOV-1999.
(UYSI-) UNIV SINGAPORE NAT.
16.9%;
25.4%;
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Human polypeptide
WO200153312-A1.
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Human 5' EST secreted prote
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Human P100 serine p
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Human MBL-associated serine
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(HYSE-) HYSEQ INC.
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US2005158297-A1.
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(NATL-) NATLMMUNE
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No. 1.1e-17;
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No. 1.3e-17;
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Protease PRTS-1.
WO200171004-A2.
27-SEP-2001.
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WO200140451-A2.
07-JUN-2000
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Human mannose binding
WO2004024925-A2.
25-MAR-2004.
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Human mannose binding
                                 AEF03476 standard;
Mature rat MASP-2.
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KR2001077614-A.
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Human MBL-associated serine
EP1344533-A1.
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Human MASP-1 protein, SEQ II
US2005158297-A1.
                                                                                                                      AAG80756 standard; protein;
                                                                                                                                                                                                                             (NATI-) NATIMMUNE
                                                                                                                                                                                                                                                                                                                                                                     (JENS/) JENSENIUS J
(THIE/) THIEL S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   (JENS/) JENSENIUS (THIE/) THIEL S.
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No. 2.
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No.
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No. 1
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                                                                  429;
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No. 3.
                                                                                                                                                                                                                                                       acid
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                                                                                                                                                                                                                                                                                468; DB 7;
No. 3.8e-17;
                                                                                                                                       461; DB 4;
No. 9e-17;
                                                                                                                                                                                                                                                                                                                                                    .5; DB 9;
2.9e-17;
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                                                          DB 5;
.6e-15;
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.8e-17;
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.6e-17;
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UNIV LEICESTER.

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Best Loca
RESULT 746
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RESULT 744
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RESULT 745
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RESULT 743
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                                                                                                                                                                                                                                                                                                                                                            Human Clq-associated serine US2005158297-A1.
                                             AEB13349 standard; protein; Complement component Clr SEQ W02005061537-A2.
                                                                                                                      Human complement WO2003072827-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             AEF03472 standard;
Full length Murine
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Full length rat MA
                                                                                                                                                                                                 KR2001077614-A.
20-AUG-2001.
                                                                                                                                                                                                                  Human Clr protein.
                                                                                                                                                                                                                                                                                                    ABB50288 standard;
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WO2005123128-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AEF03473 standard; protein; Mature murine MASP-2.
                                                                                                                                         ADP65211 standard;
                                                                                                                                                                            (BIOC-) BIO CLUE & (KIMT/) KIM T Y.
                                                                                                                                                                                                                          AAG80757 standard;
                                                                                                                                                                                                                                                                                                                                        (JENS/) JENSENIUS J
(THIE/) THIEL S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Full length Murine WO2005123128-A2.
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h 10.2%; Score 403.5;
Similarity 22.9%; Pred. No. 1.1
                 VAECGENE BIOTECH GMBH
                                                                                                     CHILDREN'S
                                                                                                                                                                                                                                                                                           component
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   rd; protein; MASP-2.
                                                                                                                               d; protein; component 1
                                                                                 HOSPITAL MEDICAL
10.2%; Score 4
22.6%; Pred. N
                                                                                                                                                                                                                                                                                                                                                                                                                                                               protein;
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protease,
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                                                                                                                               705 AA.
L, r subcomponent.
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Pred.
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Pred. No. 9
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Pred.
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Pred.
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Score 403.5; DB 9
Pred. No. 1.1e-13;
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e 403.5; DB 7;
. No. 1.1e-13;
                                                                                                                                                           403.5; DB 5;
No. 1.1e-13;
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No.
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No. 3
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                            GESUNDHEI
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.6e-14;
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.5e-15;
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. 7e-
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(MASP-2)

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686;

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Best Loca
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RESULT 755
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                                                                                                 AEB26831 standard; pr
Human mannan binding
US2005158297-A1.
                                                                  21-JUL-2005.
(JENS/) JENSENIUS J
(THIE/) THIEL S.
                                                                                                                                                                         09-JUN-2005
                                                                                                                                                                                Alzheimer's disease
US2005123962-A1.
                                                                                                                                                                                        AEA17053 standard; protein; 686 AA.
Alzheimer's disease associated protein
                                                                                                                                                                                                                                                                       ADL91025 standard; protein; (
Human mannose binding lectin
                                                                                                                                                                                                                                                                                                                                              US2002082209-A1.
27-JUN-2002.
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                     Full length MASP-2
                               AEF03426 standard;
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                                                                                                                                                                                                                                                                                                                        (JENS/) JENSEN
(THIE/) THIEL
                                                                                                                                                                                                                                                                                                                                                               ABG32115 standard; protein; Mannan-binding lectin assoc
                                                                                                                                                                                                                                                                                                                                                                                                               (JENS/) JENSENIUS J
(THIE/) THIEL S.
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24-JAN-2002.
    #02005123128-A2
29-DEC-2005.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAE14564 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human candidate osteoarthritis marker protein -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADU18123 standard;
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                                                                                                                                                                                                                                         (NATI-) NATIMMUNE AS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (JENS/) JENSENIUS J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (NOVS ) NOVARTIS
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22.7%;
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ID NO:1532
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                                                 Score 401.5; DB 9
Pred. No. 1.4e-13;
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Pred. No. 1.4
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No. 1
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No. 1.4e-13;
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No. 1.4e-13;
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1.4e-13;
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                                                                                                                                                                                                                                                                                                          human mitogen activated serine prot
WO2005024013-A1
                                                                                                       21-JUL-2005.
(JENS/) JENSENIUS
(THIE/) THIEL S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AEF13655 standard; protein;
Human MBL-associated serine
                                                                                                                                      Human mature MAS
US2005158297-A1.
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                                                WO2005123128-A2.
                                                          Mature MASP-
                                                                  AEF03427 standard;
                                                                                                                                                          AEB26838 standard;
                                                                                                                                                                                               (AARH ) AARHUS AMT
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(NATL-) NATLMMUNE
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                 UYLE-) UNIV LEICESTER
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(UYAA-) UNIV AARHUS
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ONIV LEICESTER.

10.2%;

22.7%;
Similarity
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22.
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(residues
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protease-2
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Pred. No. 1.4e-13;
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No.
399.5; DB 1
No. 1.7e-13;
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No. 1.7e-13;
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1.5e-13;

Length

686;

(MASP-2)

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0.5; DB 5; . 1.5e-13;

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protein

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686;

(MASP2)

protein.

9.5; DB 9; 1.7e-13;

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671;

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671;

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RESULT 7
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22-SEP-2005.
(UYHO-) UNIV HOKKAIDO.
9.4%; 5
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ADE56418 standard;
Rat Protein D88250,
WO2003016475-A2.
                                                                                                                                                                                                                                                                                                                                                                                           Enteropeptidase, JP2005253325-A.
                                                                                                                                                                                                                                                                                                                                                                                                   AEC95280 standard; protein; Enteropeptidase, SEQ ID 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AEC95282 standard; protein; Enteropeptidase, SEQ ID 5. JP2005253325-A.
                                                                                  ADX26430 standard;
Novel cell pain re
                                                                                                                                                                 ADE83526 standard; protein; (Rat Protein BAA25797, SEQ ID
                                                                                                                                                                                                                                          ADE56422 standard; protein; (Rat Protein BAA25797, SEQ ID W02003016475-A2.
                                                                                                                                                                                                                                                                                                                                     ADX26355 standard; protein;
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                                                                       Novel cell pain
WO2005014849-A2.
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(THIE/) THIEL S.
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                                                               17-FEB-2005
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(FARB ) BAYER
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(FARB ) BAYER
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BAYER AG.
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                                                                                d; protein; 694 AA. response detection
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2 protein.
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       protein; 695 AA
SEQ ID NO 2271
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22.1%;
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2.7e-10;
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1.1e-11;
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WO200055350-A1.
                                                                                                                                                                                                                                                Human Protein Q9UCV3, SEQ IL WO2003016475-A2.
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Human C1q-associated serine
US2005158297-Al.
21-JUL-2005.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADD45338 standard; protein; Rat Protein D88250, SEQ ID WO2003016475-A2.
                                 ADL91020 standard; protein; (Human mannose binding lectin WO2004024925-A2.
                                                                                             Marker gene related EP1394274-A2. 03-MAR-2004.
                                                                                                              ADJ75392 standard; protein; Marker gene related amino ac
                                                                                                                                                                                  ADP65315 standard; protein; Human complement cls compone
                                                                                                                                                                         Human complement WO2003072827-A1.
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                           25-MAR-2004.
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(FARB ) BAYER AG.
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Similarity 21.7%;
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BAYER AG.
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06-MAY-2005.

(NOVS) NOVARTIS AG.

(NOVS) NOVARTIS PHARMA GMBH.

8.5%; S

Match

7-ity 21.7%; F
                                                                                                                                                                          ADI16884 standard; protein; E
Human NOVX protein homologue
WO200268649-A2.
                                                                                                                                                                                                                                                                                                                                      AED74705 standard; protein;
Human placental protein SEQ
US2005255114-A1.
17-NOV-2005.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel cell pain response WO2005014849-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (HINZ/) HINZMANN B.
(HERM/) HERMANN K.
(CAST/) HEIDEN CASTANOS-VELEZ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel bronchial DE10316701-A1.
                                                                                                       ADI16818 standard;
Human NOVX protein
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                                                                                     06-SEP-2002
                                                                                               WO200268649-A2.
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Human C1S fragment
WO2005072340-A2.
                 Human prostamin,
US2006009634-A1.
                                                                                                                                                          (CURA-)
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                                                                                                                                                                                                                                     (COMP-) COMPUGEN INC.
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                                     AEF27702 standard;
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                          d; protein;
SEQ:132.
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antigenic
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Cls (Cl esterase)
                                                                                                      protein; & homologue
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SEQ ID NO 821.
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Pred. No. 5
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No. 5.
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No. 5.
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No. 9
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No. 5.9e-10;
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.9e-10;
                                                       DB 5;
.3e-10;
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.9e-10;
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.9e-10;
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.9e-10;
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RESULT 794
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                              MO2005.
24-NOV-2005.
(GANY-) GANYMED PHARM AG.
(GANY-) B.4%;
PATV MATCh. 1-11arity 22.9%;
Human enteropeptidase.
WO2006050999-A2.
18-MAY-200
                                                                                                                                                                                          ADI10400 standard;
Human cell surface
WO200295007-A2.
                                                                 AEH25673 standard; protein;
Human serine protease PRSS7
WO2005110338-A2.
                                                                                                                              Human transmembrane US2004001801-A1.
                                                                                                                                                                                                                                                               Human PRSS7
                                                                                                                                                                                                                                                                                                    09-AUG-2001.
(CORV-) CORVAS INT INC.
                                                                                                                                                                                                                                                                                                                     Human enterokinase WO200157194-A2.
                                                                                                                                              ADJ46924 standard;
                                                                                                                       01-JAN-2004
                                                                                                                                                                            28-NOV-2002
(CORV-) COR
                                                                                                                                                                                                                                                                      ADA83985 standard; protein;
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ANDERSON D.
PADIGARU M.
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EDINGER S.
SCIORE P.
ELLERMAN K.
MALYANKAR U.
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GROSSE W.
LEPLEY D.
BURGESS C.
VERNET C.
                                                                                              CORVAS INT INC.
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Similarity 22.9%;
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BOLDOG F.
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THERAPY BIOTECHNOLOGY SAS

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RESULT 797
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Best Local
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AAU11812 standard; protein; Cancer and neurogenesis assow0200190354-A1.
                                                                                                                                                            AAU11815 standard; protein; 1783 AA. Cancer and neurogenesis associated gene, WO200190354-A1.
                                                                                                                                                                                                                                                                                                                                                                                                      ADH72216 standard; pr
Human protein of the
WO2003102155-A2.
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                                                                                       AAU11813 standard; protein;
Cancer and neurogenesis asso
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Human S-100 beta binding pro
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                                                                     29-NOV-2001
                                                                             WO200190354-A1.
                                                                                                                                          (UYLE-) UNIV LEEDS
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(BUCK-) BUCK INST AGE
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Similarity 20.8%;
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No. 4.8e-09;
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No. 1.2e-09;
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RESULT 806
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ID AAB19552 standard;
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RESULT 810
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Human matriptase (truncated
      Human matriptase. WO200053232-A1.
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Human protein sequence SEQ
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Human peptidase, HPEP-1 prot
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                                                                                      WO2004032842-A2.
                                                                                                 Protein
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                                                                                                                                                                   Human membrane-type WO200157188-A2.
                                                                                                                                                                                        ABB11428 standard;
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WO200153455-A2.
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                                                                   (VAND-)
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ID NO:1143
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WO2006068975-A2.
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PRO polypeptide SEQ ID NO:428.
WO2004041170-A2.
21-MAY-2004.
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Antipsoriatic protein
WO2004028479-A2.
          Human prostatic carcinoma WO2004076614-A2.
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Human NOVX protein
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WO200123524-A2.
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Tumour antigen derived gene
           Human membrane-type WO200157194-A2. 09-AUG-2001. (CORV-) CORVAS INT I
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                                      AAE06930 standard; protein;
Human membrane-type serine p
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(UYAR-) UNIV ARKANSAS.
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(CURA-) CURAGEN CORP.
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WO200055180-A2.
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WO2003031585-A2.
                                Human novel proteinNOV 8. US2004033493-A1. 19-FEB-2004.
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Wild type human mem
WO2005110453-A2.
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(CORV-) CORVAS INT INC.
                                                                                                                                                                                                                                                                                                                                                                  ADJ46895 standard; protein; 855 AA.
Human transmembrane serine protease
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ry Match 8.3%;
t Local Similarity 21.6%;
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Human membrane-type serine I
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ry Match 8.3%; Score
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                                                                                AAU99088 standard; protein; 419 AA.
Human Protein C zymogen protein mutant G383N/G385T
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WO200210199-A2.
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WO200210199-A2.
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AAU99080 standard;
Human Protein C zym
                                                                         WO200232461-A2.
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                                             (MAXY-) MAXYGEN APS.
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WOLENC A R.
PENA C E A.
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GROSSE W M.
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mutant L349N/D351T

ADH71138 standard;

protein; 3104 AA

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                                                                                                                              Human protein of WO2003102155-A2.
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22-AUG-2002.
(CURA-) CURAGEN CORP.
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Human Protein C zymogen prot
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WO2003082914-A1.
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(CURA-) CURAGEN CORP.
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(CURA-) CURAGEN CORP.
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HOLDINGS LTD.
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RESULT 871
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Best Local Similarity
RESULT 870
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        Query
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25-APR-2002.
(MAXY-) MAXYGEN APS.
(MAXY-) MAXYGEN HOLDINGS LTD.
(MAXY-) MAXYGEN HOLDINGS LTD.
8.0%; S.
                                                                                                                          AAE20901 standard;
Human C3b/C4b compl
WO200210199-A2.
                                                                                                                                                                                                                                                                                   Bovine enterokinase.
WO9416083-A1.
                                                                                                                                                                                                                                                                                                                                                                AEA20987 standard; protein;
Novel human polypeptide SEQ
WO2005049806-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAU99066 standard; protein; 419
Human Protein C zymogen protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human protein of WO2003102155-A2.
                                                                                                                  07-FEB-2002
                                                                                                                                                                                                       AAE20900 standard; protein; 3069 AA. Human C3b/C4b complement receptor like WO200210199-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADW28524 standard; protein;
Human protein C variant #2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200232461-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human Protein C zymogen protein
WO200232461-A2.
                                                                                                                                                                                                                                                                                                        AAR57283 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                            (MAXY-) MAXYGEN HOLDINGS LTD (MAXY-) MAXYGEN APS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAU99006 standard; protein;
                                               WO200232461-A2.
                                                        Human Protein
                                                                 AAU99076 standard;
                                                                                                        (AMGE-) AMGEN INC
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                                                                                                                                                                                     AMGEN INC.
N APS.
IN HOLDINGS LTD.
8.0%; (
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HOLDINGS
                                                     rd; protein; 419
zymogen protein
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                                                                                                                                                                                                                                                                                                        protein;
                                                                                                                                   protein; 3100 /
Lement receptor
                                                                                                                                                                                                                                             T INC.
8.0%;
24.6%;
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                                                                                   8.0%;
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ID NO 1
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Pred.
                                                                                   Score 317.5; DB 5;
Pred. No. 1.9e-08;
                                                                                                                                                                                                                                             Score 317.5; DB 2; Pred. No. 5.3e-09;
        Score
                                                      AA.
mutant
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No. 2.5
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No.
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No. 4.2
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No.
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No.
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No. 1.
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2.9e-09;
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                                                       M338N/S340T
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        419;
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ID AAR62653 standard;
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            Query Match
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25-APR-2002.
(MAXY-) MAXYGEN APS.
(MAXY-) MAXYGEN HOLDINGS LTD.
(MAXY-) MAXYGEN HOLDINGS LTD.
8.0%; S.
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25-APR-2002.
(MAXY-) MAXYGEN APS.
(MAXY-) MAXYGEN HOLDINGS LTD.
(MAXY-) MAXYGEN HOLDINGS LTD.
8.0%; S.
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                                             WO9309804-A1.
                                                         Protein C
                                                                                                                                     Human protein
US5358932-A.
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Human Protein C zymogen protein
                                                                                                                                                                                                                                                                                                                                          WO200232461-A2.
                                                                                                                                                                                                                                                                                                                                                      Human Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAU99071 standard; protein; 419 AA.
Human Protein C zymogen protein mutant S336N/M338S
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WO200232461-A2.
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Human Protein C zymogen protein mutant D351N/Q353S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAU99026 standard; protein; 419 AA.
Human Protein C zymogen protein mutant L220N/R222T
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                                                                    AAR35760 standard;
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(MAXY-) MAXYGEN HOLDINGS LTD.
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(MAXY-) MAXYGEN HOLDINGS LTD.
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(MAXY-) MAXYGEN HOLDINGS LTD.
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8.0%;
rity 24.5%;
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nogen protein
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24.7%;
8.0%;
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24.5%;
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Pred. No. 4e-
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mutant G383N/G385S
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314.5;
No. 4.2
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No. 3.7e-09;
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No. 3.3e-09;
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3.7e-09;
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 4.2e-09;
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            419;
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AAU99053 standard; protein;

419 AA

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Best
RESULT
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Human Protein C zymogen prot
WO200232461-A2.
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                                                                                                                                                                            ADW28523 standard; protein;
Human protein C variant #1.
WO2004113385-A1.
                                                                                                                                                                                                                                                                                ADM77504 standard; protein; Human protein C variant #2 w02003106666-A2.
 Murine NOVX
                                                                             Epithin protein.
WO200203787-A2.
                                                                                                 AAE23083 standard;
                                                                                                                                                     (MAXY-) MAXYGEN HOLDINGS LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                            (MAXY-) MAXYGEN APS.

(MAXY-) MAXYGEN HOLDINGS LTD.
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(MAXY-) MAXYGEN
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WO200232461-A2:
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Human Protein C zymogen protein mutant S190N/K192S
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          ADI16819 standard; protein; 855 AA
                                                                                                                                             (MAXY-) MAXYGEN
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(MAXY-) MAXYGEN HOLDINGS LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AU99043 standard;
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HOLDINGS LTD.
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mogen protein
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23.0%;
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8.0%;
24.5%;
homologue SeqID 355.
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24.5%;
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Pred.
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Pred. No. 4.6e-09;
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Pred. No. 4.2e-09;
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mutant
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mutant L296N
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No. 4.
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No. 4.
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No. 4.2e-09;
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                                314; DB 5;
No. 8.7e-09;
                                                                                                                                                                                                                                                                                             sequence
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Query Match
Best Local S
RESULT 897
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RESULT 893
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RESULT 892
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                          AEH44151 standard; I
Human protein C ana.
WO2006044294-A2.
27-APR-2006.
                                                                                                                                                                                                          AAU99016 standard; protein; 419
Human Protein C zymogen protein
WO200232461-A2.
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WO200268649-A2.
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(ELIL) LILLY & CO
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Human Protein C zymogen protein
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                                                                                                                       WO200232461-A2.
                                                                                                                                          AAU99023 standard;
                                                                                                                                                                             (MAXY-) MAXYGEN APS.
(MAXY-) MAXYGEN HOLDINGS LTD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAU99005 standard;
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                                                                                           (MAXY-) MAXYGEN
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(MAXY-) MAXYGEN HOLDINGS LTD.
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(MAXY-) MAXYGEN HOLDINGS LTD.
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25-APR-2002.
(MAXY-) MAXYGEN APS.
(MAXY-) MAXYGEN HOLDINGS LTD.
(MAXY-) MAXYGEN HOLDINGS LTD.
7-9%; S
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Rat NOVX protein ho
WO200268649-A2.
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ANU99069 standard; protein; 419 Human Protein C zymogen protein W02002324G1-A2.
25-APR-2002.
                                                                                                                       (MAXY-) MAXYGEN APS.
(MAXY-) MAXYGEN HOLDINGS
7.5
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(MAXY-) MAXYGEN HOLDINGS LTD.
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(MAXY-) MAXYGEN HOLDINGS LTD.
7.9%;
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Human Protein C zymogen protein mutant S336N/M338T
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SeqID 417.
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(MAXY-) MAXYGEN APS.
(MAXY-) MAXYGEN HOLDINGS LTD.
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WO200232461-A2.
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Human Protein C zymogen protein mutant L387N/N389S
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WO200232461-A2.
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Human Protein C zymogen protein mutant M338N.
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WO200232461-A2.
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Human Protein C zymogen protein
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Human Protein C zymogen prot
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Human Protein C zymogen prot
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WO200232461-A2.
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Human Protein C zymogen protein
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zymogen protein mutant D351N/Q353T
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mutant H303N/S305T
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mutant L387N/N389T
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mutant K218N/L220T
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mutant F316N/L318S
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MAXYGEN MAXYGEN

APS. HOLDINGS LTD

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Query Match
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                                                                                                       AAB82677 standard; protein; Human protein C derivative W0200157193-A2.
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Human protein C variant #5 a
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                                           Human Protein
                                                    AAR13537 standard;
                                                                                                                                                                                                         AEK17063 standard; protein;
                                                                                                                                                                                                                                            (COMP-) COMPUGEN
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                   (ELIL )
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24.5%;
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C zymogen prot
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zymogen N.
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protein mutant
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protein mutant
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amino acid
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Pred.
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Pred. No. 5.
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312;
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6.2e-09;
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5.7e-09;
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5.9e-09;
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WO2003082914-Al.
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Human Protein C zymogen pro
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WO200250105-A1.
                                                               Human Protein
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (SMIK ) SMITHKLINE BEECHAM
(SMIK ) SMITHKLINE BEECHAM
(GLAX ) GLAXO GROUP LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADG83830 standard;
                    (MAXY-) MAXYGEN
                                                    WO200232461-A2.
                                                                        AAU99044 standard;
                                                                                                                (MAXY-) MAXYGEN
                                                                                                                                                Human Protein C
WO200232461-A2.
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WO200232461-A2.
                                                                                                                                                                                                                                                                  AU99070 standard;
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                                                                                                                                                                                                                                                                                                                                                              AAU99047 standard; protein; 419
                                                                                                                                                                                                                                                                                                                                                                                                        (MAXY-) MAXYGEN APS.
(MAXY-) MAXYGEN HOLDINGS LTD.
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n. SEQ ID
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24.3%;
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No. 1
                                                                                            311.5; DB 5;
No. 6.1e-09;
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No. 6.1e-09;
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No. 6.1e-09;
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AAU99014 standard;

protein; 419 AA

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RESULT 9:
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RESULT 937
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RESULT 935
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25-APR-2002.
(MAXY-) MAXYGEN APS.
(MAXY-) MAXYGEN HOLDINGS LTD.
(MAXY-) MAXYGEN HOLDINGS LTD.
7.9%; S
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25-APR-2002.
(MAXY-) MAXYGEN APS.
(MAXY-) MAXYGEN HOLDINGS LTD.
(MAXY-) MAXYGEN HOLDINGS LTD.
7.9%; S
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25-APR-2002.
(MAXY-) MAXYGEN APS.
(MAXY-) MAXYGEN HOLDINGS LTD.
(MAXY-) MAXYGEN HOLDINGS LTD.
7.9%; (
Human protein
EP443874-A.
28-AUG-1991.
                                                                                                 AAR13539 standard; protein;
Human Protein C zymogen LIN
                                                                                                                                                  04-MAY-1988.
(ZYMO) ZYMOGENETICS
                                                                                                                                                                                                                                                               AAU99015 standard; protein;
Human Protein C zymogen prot
WO200232461-A2.
                                                                                                                                                                                                                                                                                                                                              AAU99095 standard; protein; 419
Human Protein C zymogen protein
WOZ00232461-A2.
25-APR-2002.
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Human Protein C zymogen protein
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Human Protein C zymogen
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WO200232461-A2.
                 AAR13997 standard; protein;
Human protein C zymogen Q329
                                                                                                                                                                        Human protein
EP266190-A.
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25-APR-2002.
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Human Protein C zymogen prot
                                                                               28-AUG-1991.
                                                                                        EP443875-A
                                                                                                                                                                                         AAP81205 standard; protein;
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Pred. No. 6.1e-09;
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No. 6.1e-09;
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6.1e-09;
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RESULT 940
ID ADM775
DE Human
PN WO2003
PD 24-DEC
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RESULT 948
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RESULT 947
TO 1.5
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AAB36896 standard; protein; 419 AA. Human protein C derivative 3. WO200066754-Al. 09-NOV-2000.
                                                                                         AAB82673 standard; protein; Wild-type human protein C.
                                                                                                                                                                                                                                                                                                                                                                                          ADX39090 standard;
Rat factor VII.
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WO200157193-A2.
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WO200157193-A2.
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Human protein C derivative
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                                                                                                                                                                                                                               Human activated WO2003075834-A2.
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17-FEB-2005.
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(MAXY-) MAXYGEN HOLDINGS LTD.
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(MAXY-) MAXYGEN APS.
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(MAXY-) MAXYGEN HOLDINGS LTD.
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                                                       Human activated WO2003075834-A2
                                                                ADC40014 standard; protein; 419 AA.
Human activated protein C-related p
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Amino acid sequence of mature human
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h 7.9%; Score 310.5; DB 6;
Similarity 24.5%; Pred. No. 6.9e-09;
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ADO18786 standard;

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Mainland tiger snake
WO2003082914-A1.
09-OCT-2003.
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Human protein C analog with
WO2006044294-A2.
27-APR-2006.
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Human protein C analog with
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Human activated protein C (A
WO2005023308-A1.
17-MAR-2005.
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(MAXY-) MAXYGEN HOLDINGS
(MAXY-) MAXYGEN APS.
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WO2006044294-A2.
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EP191606-A.
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JP63263083-A.
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Sequence of human protein C.
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(ELIL ) LILLY & CO
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W09109951-A.
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WO9112320-A.
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EP323149-A
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Human Protein C.
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Human wild type protein C.
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Human protein C derivative 2
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Human zymogen-like
WO2004044190-A2.
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(MAXY-) MAXYGEN APS.
(MAXY-) MAXYGEN HOLDINGS
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          ADW28520 standard;
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Best Loc
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                                                                                                                                                                                                                                                                                                                                                                                                              Human target protein #99.
WO2005119262-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AED96684 standard; protein Human C-reactive protein WO2005107364-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (MAXY-) MAXYGEN (MAXY-) MAXYGEN
                                                                                                                                                                                                                                                                                                                                              Human Protein C. WO2006018204-A1.
                             PC-UGAC-GPI-4stop cassette p
WO2005073375-A1.
                                                                                                                                                                                                                                                                       Human protein C. WO2006072137-A1.
                                                                                                                                                                                                                                                                                         AEJ12612 standard;
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WO2004113385-A1.
          (MAXY-)
                                                                                                                 MO2005073375-A1.
                                                                                                                         ABC01741 standard; protein; PCUAAC-GPI-4Stop cassette.
                                                                                                                                                                                                 PC-GPI cassette
WO2005073375-A1.
                                                                                                                                                                                                                   AEC01736 standard;
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(ZLBB-) ZLB
                                                                                                                                                                                                                                                                                                                                                               AEG02811 standard;
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                                                                                       (MAXY-) MAXYGEN
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                                                                                                                                                                                                                                   NSYD-) NORTHERN SYDNEY & CENT COAST AREA
TY Match 7.9%; Score 310.5;
Local Similarity 24.5%; Pred. No. 7.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
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APS.
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precursor I39R/K mutant.
                                                                                      HOLDINGS LTD
APS.
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                 HOLDINGS LTD
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7.9%;
3 24.5%;
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Score 310.5;
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No. 7.5e-09;
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7.5e-09;
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5; DB 10;
7.5e-09;
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.5e-09;
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e-09;
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7.9%;

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Length

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Query Match
Best Local Similarity
RESULT 1003
ID AARPITE.
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Best Local S
RESULT 1008
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Best Local S
RESULT 1002
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Best Local Similarity
RESULT 1007
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Best Local Similarity
RESULT 1006
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RESULT 1001
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09-NOV-2000.
(ELIL ) LILLY & CO ELI.
7.8
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09-AUG-2001.

(ELIL ) LILLLY & CO ELI.

7.9%; (

7.9%; (

24.5%;
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Human Protein C zymogen FN.
EP443875-A.
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Human protein C derivative;
WO200159084-A1.
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Human HUMCIRS_PEA_1_P22 pro
       AAU99013 standard;
Human Protein C zym
WO200232461-A2.
                                                                                                                                                                                     25-APR-2002
                                                                                                                                                                                              Human Protein C
WO200232461-A2.
                                                                                                                                                                                                                                                                                                                                                                          AAB36897 standard; protein; 4:
Human protein C derivative 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                         28-AUG-1991.
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Human protein C derivative (S11G/Q32E/N33D/L194S/T254S)
                                                                                          25-APR-2002.
                                                                                                         AAU99033 standard; protein; 419 AA.
Human Protein C zymogen protein mutant K251N.
                                                                                                                                                                                                                 AAU99018 standard;
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                                                                      (-XX4W)
                                                                                                                                                               (MAXY-) MAXYGEN
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7.9%;
Similarity 24.7%;
                                                                   MAXYGEN
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HOLDINGS LTD.
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HOLDINGS LTD.
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24.5%;
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24.5%;
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protein mutant
                protein mutant
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#4.
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Pred.
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Pred.
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No. E
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No. 7.3e-09;
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No. 9e-09;
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                                                                                                                                           309.5; DB 5;
No. 7.8e-09;
                                                                                                                                                                                                                                      309.5; DB 4;
No. 7.8e-09;
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8e-09;
                K193N/A195S
                                               75
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                                              , DB 5;
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.3e-09;
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Query Match
Best Local S
RESULT 1015
REREE
                                                           Best Local Similarity RESULT 1016
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RESULT 1011
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RESULT 1009
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Best Local Similarity 24.5%;
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(MAXY-) MAXYGEN APS.
(MAXY-) MAXYGEN HOLDINGS LTD.
(MAXY-) MAXYGEN HOLDINGS LTD.
7.8%; S/
                                                                                                                                        Human Protein C
WO200232461-A2.
                     WO200232461-A2.
                                    Human Protein
                                                                                                                                                    AAU99019 standard; protein; 419
Human Protein C zymogen protein
                                                                                                                                                                                                                                               AAU99058 standard; protein; 419 AA.
Human Protein C zymogen protein mutant K308N/A310T.
WO200232461-A2.
25-APR-2002.
                                                                                                                                                                                                                                                                                                                                                                                WO200232461-A2.
                                                                                                                                                                                                                                                                                                                                                                                        AAU99085 standard; protein; 419 AA.
Human Protein C zymogen protein mutant E357N/D359S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO200232461-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAU99035 standard; protein;
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WO200232461-A2.
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WO200232461-A2.
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Human Protein C zymogen protein mutant F316N/L318T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (MAXY-) MAXYGEN APS.

(MAXY-) MAXYGEN HOLDINGS LTD.
                                               AAU99094 standard;
                                                                                                                                                                                                                     (MAXY-) MAXYGEN APS.

(MAXY-) MAXYGEN HOLDINGS LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human Protein
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(MAXY-) MAXYGEN HOLDINGS LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAU99062 standard; protein;
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(MAXY-) MAXYGEN HOLDINGS
                                                                                                  (MAXY-) MAXYGEN
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(MAXY-) MAXYGEN HOLDINGS LTD.
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(MAXY-) MAXYGEN HOLDINGS LTD.
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                                                                                                  APS.
HOLDINGS LTD
                                               protein;
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24.4%;
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24.5%;
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protein
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protein mutant S252N.
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Pred.
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                                                                        Score 309.5; DB 5
Pred. No. 7.8e-09;
                                                                                                                                                                                                                                                                                                              Score 309.5; DB 5 Pred. No. 7.8e-09;
                                                                                                                                                                                            Score 309.5; DB 5; Pred. No. 7.8e-09;
                             AA.
mutant H388N/Y390T
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No. 7.8e-09;
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7.8e-09;
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Best Local Similarity
RESULT 1025
ID AAU99049 standard; I
DE Human Protein C zymo
PN WO200232461-A2.
PD 25-APR-2002.
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RESULT
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Human protein C analog with Q353R substitution
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                                                                                                   AAE08629 standard;
Human protein C der
                                                                                                                                                                         Human protein C WO200159084-A1.
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Human Protein C zymogen FLIN
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EP319312-A.
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                                                                                         Human protein C
WO200159084-A1.
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(MAXY-) MAXYGEN HOLDINGS LTD.
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protein homologue
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                  C zymogen protein
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Pred. No. 1.4e-08;
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mutant L386N/H388S
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No. 7.8e-09;
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Best Local Similarity RESULT 1027
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WO200232461-A2.
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                                                                           ADM77506 standard; protein; 461 l
Human protein C variant #4 amino
WO2003106666-A2.
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AAE08628 standard;
Human protein C der
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(MAXY-) MAXYGEN HOLDINGS
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Human protein C WO200159084-A1.

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Human protein C ana:
WO2006044294-A2.
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Human Protein C zymogen protein
WO200232461-A2.
25-APR-2002.
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(MAXY-) MAXYGEN APS.
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7.6
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25-APR-2002.
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(MAXYY-) MAXYGEN HOLDINGS LTD.
(MAXY-) MAXYGEN HOLDINGS LTD.
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WO200232461-A2.
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WO200232461-A2.
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WO200232461-A2.
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(MAXY-) MAXYGEN HOLDINGS LTD.
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(MAXY-) MAXYGEN APS.
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WO200232461-A2.
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                                                                                                                                    D172N/K174S
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RESULT 1042
ID AAR1358
DE Human p
PN EP44387
PD 28-AUG-
                               Best Local Similarity 24.9%;
RESULT 1050
ID AAR13582 standard; protein;
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Best Local Similarity
RESULT 1043
PA DE L
                                                                                                                   Best Local Similarity RESULT 1049
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Best Local Similarity
RESULT 1047
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Best L
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                                                                                                                                                              AEA20109 standard; protein; Novel human polypeptide SEQ W02005049806-A2.
                                                                                                                                                                                                                                       AEH44150 standard; protein; Human protein C analog with WO2006044294-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human C-reactive WO2005107364-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAR13585 standard; protein; 461
Human protein C zymogen Q313.
                                                                                                                                                                                                                                                                                                                                                                                                                AAU99004 standard; protein;
Human Protein C zymogen prot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human diagnostic WO2004023973-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABM83654 standard;
                 Human protein
EP443874-A.
                                                                                         WO2006018204-A1.
                                                                                                Mature Protein C
                                                                                                                                                                                                                                                                                                                       WO200232461-A2.
                                                                                                                                                                                                                                                                                                                                  Human Protein
                                                                                                                                                                                                                                                                                                                                          AAU99073 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                         WO200232461-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AED96686 standard;
                                                                                                           AEG02812 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             (COMP-) COMPUGEN LTD.
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                                                                                                                                                                                                                                                                                             (MAXY-) MAXYGEN APS.
(MAXY-) MAXYGEN HOLDINGS LTD.
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                                                                      BEHRING
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S
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HOLDINGS LTD.
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protein (CI
                         zymogen
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                                                                                                polypeptide.
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ELI.
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                                                    GMBH.
7.7%;
24.9%;
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24.1%;
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24.4%;
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24.8%;
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20.8%;
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                         Q097.
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protein mutant D172N/K174T
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1 Q32M 8U
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ID NO 803.
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Pred.
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Pred. No. 1.3e-08;
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                                                                                                                                                                                                                                                                                                                                  mutant V339S.
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No.
                                                    304.5; DB 1
No. 1.4e-08;
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No.
                                                                                                                            305; DB 9;
No. 2.1e-08;
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No. 1.3e-08;
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. 1.3e-08;
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. 1.3e-08;
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. 1.2e-08;
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Best Local Similarity RESULT 1051
                           Best Local Similarity RESULT 1059
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RESULT
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RESULT 1058
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                                                                                           Mouse factor VII WO2005014775-A2.
                                                                                                                                                                                              ADX39098 standard; protein; Mouse factor VII mutant. W02005014775-A2.
                                                                                                                                                                                                                                                                                                      Hybrid protein of EP296413-A.
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EP443874-A.
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WO200232461-A2.
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(MAXY-) MAXYGEN HOLDINGS LTD.
7.6%;
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Human Protein C zymogen protein
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(MAXY-) MAXYGEN HOLDINGS LTD.
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 AAU99041 standard;
Human Protein C zym
                                                                                                                  ADX39094 standard; protein; 446
                                                                                                                                                                                                                                                                                                                                AAP93714 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAU99038 standard; protein; 419
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(MAXY-) MAXYGEN HOLDINGS_LTD.
                                                                    (UYFL )
                                                                                17-FEB-2005
                                                                                                                                                                       (UYFL ) UNIV FLORIDA
                                                                                                                                                                                     17-FEB-2005
                                                                                                                                                                                                                                                                                                                                                                                  (MAXY-) MAXYGEN APS.
(MAXY-) MAXYGEN HOLDINGS LTD.
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                                                                                                                                           Local Similarity
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                                                              UNIV FLORIDA RES FOUND INC.
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h 7.61
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zymogen Q248.
                                                                                                                                                                                                                                                                                                                 protein;
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7
protein; 419 AA.
mogen protein mutant
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24.58;
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24.4%;
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24.5%;
                                                                                                                                         RES FOUND INC.
7.6%; Score 301.5;
22.3%; Pred. No. 3.
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24.7%;
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                                       7.6%;
22.3%;
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protein
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protein mutant V243N/V245S.
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and
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Pred.
                                       Score
Pred.
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                                                                                                                                                                                                                                                  Score 301.5; DB 1;
Pred. No. 2.3e-08;
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                                                                                                                                                                                                                                                                                                                 AA.
Factor-X.
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mutant T253N/D255S
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No. 1.6e-08;
                                       300.5; DB 9;
No. 2.5e-08;
 D255N/D257S
                                                                                                                                                                                                                                                                                                                                                                                                                                     T253N/D255T
                                                                                                                                             3.3e-08;
                                                                                                                                                      DB 9;
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Best Local Similarity RESULT 1067
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RESULT 1061
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(MAXY-) MAXYGEN
                                                                                                                                                                                                                                                                     ADB65750 standard; protein; 397 AA.
Human protein encoded by clone UTERU20087070.
                                                                                                                                                                                                                                                                                                                                                           Danio factor VII. WO2005014775-A2.
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25-APR-2002.
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Human Protein C zymogen protein
               ADI17268 standard; protein;
                                                                                                                                            Human t-plasminogen
US2006216722-A1.
                                                                                                                                                      AEL57571 standard; protein; 543 AA.
Human t-plasminogen activator precu
                                                                                                                                                                                                                                                          EP1308459-A2.
                                                                                                                                                                                                                                                                                                                                                                                    ADX39092 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAU99042 standard; protein; 419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAU99030 standard; protein; 419
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                                                                                                                                                                                                                   (REAS-) RES ASSOC BIOTECHNOLOGY.
                                                                                                                                                                                                                                                                                                        (UYFL ) UNIV FLORIDA RES FOUND INC.

Y Match 7.6%; Score
Local Similarity 23.0%; Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                    (MAXY-) MAXYGEN APS.
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(MAXY-) MAXYGEN HOLDINGS LTD.
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(MAXY-) MAXYGEN HOLDINGS LTD.
                                                                                       BETS/) BETSHOLTZ C.
TRYG/) TRYGGVASON K.
TAKE/) TAKEMOTO M.
                                                                                                                                                                                                                                                                                                       Local Similarity
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Local Similarity 24.4%;
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                                                                PATRAKKAS J.
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7.6%;
rity 24.2%;
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                                        7.5%;
23.0%;
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230 AA.
human NOVX domain SeqID
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                                                                                                                                                        precursor,
                                                                                                                                                                                                                                                                                                                                                                                      B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A
                                                                                                                                                                                                        298;
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No.
                                        297.5; DB 10;
No. 4.4e-08;
                                                                                                                                                                                             No.
                                                                                                                                                                                                                                                                                                          298.5; DB 9;
No. 3.1e-08;
                                                                                                                                                                                                                                                                                                                                                                                                             298.5; DB
No. 3e-08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          298.5; DB
No. 3e-08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            299.5; DB 5
No. 2.7e-08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            298.5; DB
No. 3e-08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25
                                                                                                                                                                                             w
                                                                                                                                                                                           DB 7;
1.1e-08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         , DB 9;
.8e-08;
                                                                                                                                                        SEQ ID NO: 2034.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <u>ა</u>
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                                                                                                                                                                                                      Length 397;
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                                                    Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       419;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     443;
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Polypeptide homologous

to a

804

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Query
Best L
RESULT 1
 ADI17276 standard; protein; Polypeptide homologous to a WO200268649-A2.
                                                                                                                                                                                                                                                                                                                                                                       Trypsin-like ser
US2003170630-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-SEP-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200268649-A2
                                                                                                                                                                                                                                                                                                                                                                                    ADJ83075 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (CURA-)
                                                                                    (LEPL/)
                                                                                                                                                    Trypsin-like ser
US2006009634-A1.
                                                                                                                                                                                                                                        (BOLD/
(GORM/
(GANG/
(FERN/
(RIEG/
                                                                                                                                                                 AEF27705 standard; protein;
                     /d10g)
                                                                                                                                 ALSO/)
                                                                                                                                        KEKO/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                 ocal Similarity
                                                                                                                                                                                                                                CASMAN S J.
BOLDOG F L.
GORMAN L.
GANGOLLI E A.
FERNANDES E R.
RIEGER D K.
EDINGER S R.
                                                                            PATTURAJAN M.
GROSSE W.
LEPLEY D.
BURGESS C.
VERNET C.
                                                                                                                                                                                          ELLERMAN K.
MACDOUGALL J I
SMITHSON G.
                                                                                                                                                                                                                         EDINGER S R
GUNTHER E.
                                                                                                                                                                                                                                                                                  BURGESS C E.
SHIMKETS R A.
GROSSE W M.
SZEKERES E S.
VERNET C A M.
                                                                                                                                                                                                                                                                                                                    SPYTEK K A.
ZERHUSEN B I
PATTURAJAN N
LEPLEY D M.
                                                                                                                           KEKUDA R.
ALSOBROOK J.
TCHERNEV V.
                                                                                                                                                                                                                                                                                                                                              TCHERNEV
LIU X.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURAGEN.
                   MALYANKAR U.
ROTHENBERG N
STONE D.
BOLDOG F.
                                                                                                                                                                                                              MILLET I.
SCIORE P.
                                                                                                                                                                                                                                                                                                                                                                                                              CURAGEN CORP.
BOLDOG F.
GUO X.
SHENOY S.
ANDERSON
                                             SCIORE P.
ELLERMAN K.
                                                          GORMAN L.
EDINGER S.
                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                           ALSOBROOK J P.
                                                                                                                    LIU X.
                                                                                                                                                           serine
                                                                                                                                                                                                                                                                                                                                                                               serine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORP.
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                              ¥.C.
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32.3%;
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                                                                                                                                                          protease
                                                                                                                                                                                                                                                                                                                                                                               protease
                                                                                                                                                                                                                                                                                                                                                                                                                                                     7.5%;
32.3%;
                                                                                                                                                                             7.5%;
32.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                230 AA.
human N
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                                                                                                                                                                 230 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score
Pred.
                                                                                                                                                                             Score
Pred.
                                                                                                                                                                                                                                                                                                                                                                               protein
                                                                                                                                                                                                                                                                                                                                                                                                 Score
Pred.
                                                                                                                                                          consensus
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No. 2.
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No. 2.
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No. 2.4e-08;
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                                                                                                                                                                                                                                                                                                                                                                               SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                 domain SeqID
                                                                                                                                                         sequence,
                                                                                                                                                                             DB 7;
.4e-08;
                                                                                                                                                                                                                                                                                                                                                                                                 DB 5;
.4e-08;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 230;
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                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                           SEQ:135
                                                                                                                                                                                    230,
                                                                                                                                                                                                                                                                                                                                                                                                        230;
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Query Match
Best Local Similarity
RESULT 1071
ID AEG02859 standard; pr
DE Factor VII/X fusion F
PN W02006018204-A1.
                                                                                                                                                                                                                              веяt Local Similarity
RESULT 1076
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RESULT 1074
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    best Local Similarity
RESULT 1072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PA BR BB
         Best Local
RESULT 1079
                                                                                                                                                         Best Local Similarity
RESULT 1077
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Best Local Similarity
RESULT 1075
                                                                                RESULT 1078
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Best L
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Best Local :
                                                                                                  Query
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                      ANOUSTAND TECHN LTD.

(BRBI-) BRIT BIO-TECHN LTD.

7.5%;

7.5%;

23.3%;
                                                    AAR70903 standard;
Human t-PA variant
US5385732-A.
                                                                                                                                                                                                                                                                            Sequence of tissue Thr 68, Gln 117). WO8912681-A.
                                                                                                                                                                                                                                                                                                                                                            ADX39096 standard;
Chicken factor VII.
WO2005014775-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                           Novel human diagnostic WO200175067-A2.
                                                                                                                           ABU12065 standard; protein; 986 Human NOV12a CG92293-01 protein WO200281625-A2.
                                                                                                                                                                                                    ADX39099 standard;
Bovine factor VII.
WO2005014775-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABG21442 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mutant human plasminogen activator CN1526726-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (MILL/)
                                  31-JAN-1995.
(GETH ) GENENTECH
                                                                                                                                                                                                                                                                                                       AAR09290 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADW64351 standard; protein;
AAR70895 standard; protein; 527 AA
                                                                                                                                                                                                                                                                                                                                           17-FEB-2005.
(UYFL ) UNIV FLORIDA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    () IDAG
                                                                                                                                                                                             17-FEB-2005
                                                                                                                                                                                                                                                                                                                                                                                                                   (HYSE-) HYSEQ INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (LIBB/) LI B.
                                                                                                             (CURA-)
                                                                                       Local Similarity
                                                                                                    Match
                                                                                                                                                                                                                                                                                                                                                                                                           Match
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MILLER C
EISEN A.
                                                                                                                                                                UNIV FLORIDA RES FOUR h 7.4%;
Similarity 24.1%;
                                                                                                            CURAGEN CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ZLB BEHRING
                 Similarity
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                                    INC.
                                                              protein; 527 AA. (N103,A432,A434)
                                                                                                                                                                                                                      protein;
                                                                                                                                                                                                                                                                                                                                                                              protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein;
                                                                                                                                                                                                                                                                                                       protein; 562 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein;
                                                                                                                                                                                                                                                                                              plasminogen activator analogue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GMBH.
                                                                                                                                                                                                                                                                                                                         7.5%; Score 23.4%; Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            protein
                 7.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7.5%;
25.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7.5%;
                                                                                         7.4%;
21.8%;
                                                                                                                                                                                                                                                                                                                                                                                                 7.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7.5%;
23.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                           tein; 932 AA.
protein #21433.
                                                                                                                                                                                   FOUND
                                                                                                                                                                                                                        407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               527 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            451
SEQ
                                                                                                                                                                                                                                                                                                                                                                               425 AA
                                                                                          Score
Pred.
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Pred.
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Pred.
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Pred.
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Pred.
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Pred.
                 Score 292;
Pred. No. 1
                                                                                                                                       SEQ
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                                                                                                                                                                                                                                                                                                                                                                                                 296;
No. 8.
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No. 4
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No. 2.4e-
                                                                                          293;
No. 1.
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No. 4.
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No. 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein
                                                                                                                                                                 293.5; DB 9
No. 5.5e-08;
                                                                                                                                                                                                                                         294; DB 2;
No. 7e-08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NO:53
                                                                                                                                        Ħ
                 8.4e-08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4.4e-08;
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                                                                                                                                                                                                                                                                                                                                                                                                 DB 4;
.8e-08;
                                                                                                                                                                                                                                                                                                                           DB 9;
.8e-08;
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.1e-08;
                                                                                          DB.
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                                                                                          -6;
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10;
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                                                                                                                                                                                                                                                   562;
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                                                                                                                                                                                                                                                                                                                                                                                                           932;
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                                                                                                                                                                           407;
                                                                                                                                                                                                                                                                                               Asp
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BBBBB
                                                    Query Match
Best Local Similarity
RESULT 1087
                                                                                                                                        Best Local Similarity RESULT 1086
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
RESULT 1082
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ESULT 1085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local Similarity
                                                                                                                                                                                                                                                                                         AAR13921 standard; protein;
Delta (466-470) tPA variant
WO9113149-A.
                      Plasmid pDAP3 encoded sequer JP61139386-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABM80985 standard; protein; Tumour-associated antigenic WO2004030615-A2.
                                                                                                      ADG83838 standard; protein; 376 AA. Rough scale snake venom prothrombin WO2003082914-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADQ39246 standard; protein; 516 AA. Human myocardial infarction-associated WO200405852-A2.
                                                                                                                                                                    (UPJO ) UPJOHN CO.
(MARO/) MAROTTI K R.
                                                                                                                                                                                                                 Sequence of tissue
                                                                                                                                                                                                                           AAP70475 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                        Human t-plasminogen
US2006216722-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                           AEL57575 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Antipsoriatic protein sequence WO2004028479-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADN03787 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human t-PA variant
                                                                                                                                                                                                                                                                                                                                                       PATR/) PATRAKKAS J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (APPL-) APPLERA CORP.
                                                                                  UYQU ) UNIV QUEENSLAND.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                    ocal Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ocal Similarity
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                                                                                                                                                                                                                                                                    GENENTECH INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENENTECH
TOYO SODA MFG CO LTD
                                                                                                                                                                                                              protein; 564 AA.
plasminogen (TPA)
                                                                                                                                                                                                                                               7.4%;
22.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7.4%;
23.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7.48;
23.18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (N103, A331, A332)
                                                                                                                                                                                                                                                                                                                                                                                                                                 protein; 516 activator pr
                                                              7.48;
22.28;
                                                                                                                                                7.4%;
22.9%;
                                                                                                                                                                                                                                                                                                                                   7.4%;
23.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                7.4%;
23.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7.4%;
                              sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         516 AA.
                                                                                                                                                                                                                                                                                                   522 F
with
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nce #90.
                                         516 AA
                                                             Score
Pred.
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Pred.
                                                                                                                                                Score Pred.
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Pred.
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Pred.
                                                                                                                                                                                                                                                                                                                                   Score 291.5; DB 10; Pred. No. 8.8e-08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 291.5;
Pred. No. 8.
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Pred. No. 8.
                                                                                                                                                                                                                                                                                                                                                                                                                                 precursor,
                                                                                                                                                                                                                                                                                                  AA.
h H432A
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                                                            291; DB 8;
No. 7e-08;
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No. 8.
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No.
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No. 8.
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                                                                                                                                                291.5; DB 1;
No. 9.6e-08;
                                                                                                               activator,
                                                                                                                                                                                                             analogue
                                                                                                                                                                                                                                             1.5; DB 2;
. 8.9e-08;
                                                                                                                                                                                                                                                                                                   and
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                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8e-08;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   protein,
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                                                                                                                                                                                                                                                         522;
                                                                                                                                                          564;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               516;
                                                                                                                                                                                                                                                                                                                                              516;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID
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Best Local Similarity RESULT 1094
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Best I
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 tPA analogue | US5106741-A. 21-APR-1992. (UPJO ) UPJOH
                                                                                                                                                                                            Human tissue CN1397564-A.
                                         AAR22664 standard;
                                                                                                                   AAR12340 standard;
T-PA variant contg
                                                                                                                                                                                                                  ADL00357 standard;
                                                                                                                                                                                                                                                           08-SEP-2004.
(LIBB/) LI B.
                                                                                                                                                                                                                                                                                           ADW64350 standard; protein; 527 AA.
Mutant human plasminogen activator protein
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Human tissue PA variant (deltal-44,N103,D184,E275)
                                                                                    (FUJI)
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31-JAN-1995.
                                                                                                                                                                                                                                                                                                                                                                                  Human t-PA variant
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Sequence of human tissue plasminogen activator (TPA)
                                                                                                                                                                                                                                                                                   CN1526726-A.
                                                                                                                                                                                                                                                                                                                                                                                           AAR70894 standard;
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US5385732-A.
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Similarity 22.2%; F
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Amino acid sequence
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Human cell surface I
WO200295007-A2.
28-NOV-2002.
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t-PA insertion variant i304
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Human cell surface
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Human PRO618 prote:
                                     ABU80365 standard; protein; Human secreted/transmembrane US2003004102-A1.
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                                                                                                                   Human PRO618 polypeptide.
US2002169284-A1.
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Human secreted/transmembrane
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Human secreted/transmembrane
US2003073624-A1.
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Human secreted/transmembrane
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Query Match
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20-NOV-2003.
(GETH) GENENTECH INC.
(GETH) TOTAL
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ADG62366 standard;
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No. 1.9e-07;
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No. 1.9e-07;
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No. 1.9e-07;
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No. 1.9e-07;
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No. 1.9e-07;
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No. 1.9e-07;
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1.9e-07;
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Human secreted/transmembrane US2004006219-A1.

protein,

PRO618.

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RESULT 1168
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04-FEB-2004.
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BAKER K P.
BOTSTEIN D.
DESNOYERS L.
EATON D L.
FERRARA N.
FILVAROFF E.
      PAN J.
PAONI N F.
ROY M A.
SHELTON D L
STEWART T A
                                              GODDARD A.
GODDWSKI P J.
GRIMALDI J C.
GURNEY A L.
HILLAN K J.
KLJAVIN I J.
KUO S S.
NAPIER M A.
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No. 1.9e-07;
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No. 1.9e-07;
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Best Local Similarity
RESULT 1172
ID ADZ52064 standard; p
DE Human secreted/trans
PN US2005084935-A1.
PD 21-APR-2005.
PA (ASHK) ASHKENAZI A
PA (BAKE) BAKER K P.
PA (BOTS) BOTSTTEIN D.
PA (FILV) FERNARA N.
PA (FILV) FILVAROFF E.
PA (FONG) FONG S.
PA (GERN) GERBER H.
PA (GERN) GERBER H.
PA (GERN) GERRITSEN M
PA (GUN) GOUDARD A.
PA (GUN) GOUDARD A.
PA (GUN) GOUDARD A.
PA (GUN) GUNNEY A L.
PA (HILL) HILLAN K J.
PA (HILL) HILLAN K J.
PA (KUOS) KUO S S.
PA (MAPI) NAPIER M A.
PA (PAN) PAN J.
PA (STEM) STEMART T A.
PA (STEM) STEMART T A.
PA (TUMA) TUMAS D
PA (MILL) WILLIAMS P
PA (MILL) WILLIAMS P
PA (MILL) WILLIAMS P
PA (MILL) WILLIAMS P
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PA (MILL) WILLIAMS P
Query Match 7.3%; Score 288.5;
Best Local Similarity 21.4%; Pred. No. 2
RESULT 1177
ID AAU77549 standard; protein; 902 AA.
DE Murine type II membrane serine protease,
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RESULT 1176
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Best Local Similarity
RESULT 1173
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Human PRO protein ar
US2006078964-A1.
13-APR-2006.
                                                                               Mouse epithilin-like serine WO200196378-A2.
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                                                                                                                                                                                              Murine epithin. WO200129056-A1.
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ROY M A.
SHELTON D L.
STEWART T A.
TUMAS D.
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GODOWSKI P J
GRIMALDI J C
GURNEY A L.
HILLAN K J.
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BAKER K P.
BOTSTEIN D.
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KUO S S.
NAPIER M A.
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Pred. No. 1.
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Pred. No. 1.9e-07;
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Pred. No. 2.
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No. 1.9e-07;
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                                                                                                                                             2.2e-07;
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1.9e-07;
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L.9e-07;
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                                                                                                Best Local Similarity
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Human t-PA variant
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JP03285680-A.
16-DEC-100
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JP03285680-A.
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tPA024 precursor protein.
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Human t-PA variant
                                                                                                                                              US5385732-A.
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                                                                                                                         (GETH ) GENENTECH INC.
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AY49558 standard; protein;
luman protein C protein seq.
                                                          1-JAN-1995
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7.3
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                                                                            protein; 527 (N103,A440).
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(N103,A416,A417,A418).
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23.4%;
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23.5%;
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D238A,
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Pred. No. 1.
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Pred.
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Pred. No. 1.4e-07;
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No. 1.
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No. 1
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No. 2.2e-07;
                                                                                                      288; DB 2;
No. 1.4e-07;
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No. 1.4e-07;
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RESULT 1189
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                                                                                                             pest Local Similarity
RESULT 1194
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                                Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADV44720 standard; protein; 406 AA.

Human factor VII mutant K143N/N145T/R315N/V317T
W02004110469-A2.
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Human FVII mutant K143N/N145T/R315N/V317T
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07-OCT-1999.
                                                                                                                                                                                                                                                                  Delta (466-470)
WO9113149-A.
                                                                                                                                                                                                                                                                             AAR13918 standard; protein;
Delta (466-470) tPA variant
                                                                                                                                                                                                                                                                                                                                                                      AEF15066 standard; protein; 406 AA. Variant human coagulation Factor VII protein
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Human factor VII polypeptide mutant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (WHED )
AAR70879 standard; protein; 483 AA.
Human tissue PA variant (deltal-44,N103,S184,E275)
                                                                                          Coastal taipan venom
                                                                                                    ADG83828 standard;
                                                                                                                                                                                             ABP43952 standard;
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                                                                               VO2003082914-A1.
                                                                                                                                                 HYSE-) HYSEQ INC
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h 7.3%;
Similarity 23.0%;
                                              UNIV QUEENSLAND.
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with K416A,
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Pred. No. 1.2
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No.
                                 287; DB 8;
No. 1.4e-07;
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No.
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No. 1.2e-07;
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No. 1.2e-07;
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                                                                                                                                                                                                                                                                                                              7.5; DB 10
. 1.2e-07;
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. 1.2e-07;
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. 1.5e-07;
                                                                                                                           7.5; DB 5;
2.2e-07;
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RESULT 1200
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RESULT 1196
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RESULT 1202
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Human tissue
US5385732-A.
31-JAN-1995.
                                                                                                                                                                                            AAR70882 standard; protein; 483 AA.
Human tissue PA variant (deltal-44,N103,R252,E275)
US5385732-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human tissue
US5385732-A.
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Human tissue PA variant (deltal-44,N103,E275)
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Human tissue PA variant (deltal-44,N103,
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US5385732-A.
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Human tissue PA variant (deltal-44,N103,K210,E275)
                AAR70888 standard; protein; 483 AA.
Human tissue PA variant (deltal-44,N103,R210,A211,R212,R213,E275,I277).
                                                                                                    Human tissue
US5385732-A.
                                                                                                            AAR70889 standard; protein; 483 AA.
Human tissue PA variant (deltal-44,N103,
                                                                                                                                                                    31-JAN-1995.
(GETH) GENENTECH INC.
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US5385732-A.
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Human tissue PA variant (deltal-44,N103,
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(GETH ) GENENTECH INC.
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US5385732-A.
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US5385732-A.
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US5385732-A.
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                                                                                                                                                                                                                                                                                                              AAR70881 standard;
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PA variant (deltal-44,N103,R210,A211,R212,R213,E275).
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PA variant (delta1-44,N103,S184,E275,I277)
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No. 1.4e-07;
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No. 1.
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Best Local Similarity RESULT 1205
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RESULT 1213
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Best Local Similarity
RESULT 1211
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31-JAN-1995.
(GETH) GENENTECH INC.
7.3%; 8
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Human t-PA variant
US5385732-A.
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Human t-PA variant
US5385732-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAR70907 standard;
Human t-PA variant
US5385732-A.
                                                                                                                                                                                      ADJ56073 standard; protein; Human factor VII polypeptide WO2004000366-A1.
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Human FVII mutant I
WO200158935-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAR70880 standard; protein; Human tissue PA variant (de US5385732-A.
Human factor VII
WO2004110469-A2.
23-DEC-2004.
                   ADV44715 standard; protein; 406 AA. Human factor VII mutant K143N/N145T.
                                                                                                      Human factor VII
WO2004029091-A2.
                                                                                                                          ADO10589 standard;
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(GETH) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAR70890 standard; protein; 483 AA.
Human tissue PA variant (delta1-44,N103,K210,E275,I277).
                                                                                                                                                         (NOVO ) NOVO NORDISK AS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   31-JAN-1995
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                                                                      MAXY-) MAXYGEN APS.

MAXY-) MAXYGEN HOLDINGS LTD.
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                                                   Similarity
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                                                                                                              ndard; protein;
VII/VIIa protei
                                                                                                                                                                                                                                                                                ; protein; 406 AA.
K143N/N14ST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein; 527 AA. (N103, A460, A462)
                                                                                                                                                                                                                                                                                                                                                                   protein; 527 AA. (N103,A283,A287)
                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein; 527 (N67,N103).
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(deltal-44,N103,K213,E275)
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e mutant
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No. 1.3e-07;
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.4e-07;
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Best Local Similarity RESULT 1214
                              Best Local Similarity RESULT 1222
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                                                                                                                                                                                                                                                                Human tPA variant N103.
US5270100.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADG83826 standard; protein; Brown snake venom protease. WO2003082914-A1.
                                                                                                                                                                                                                                                                                                                                                 AAR44816 standard;
Human tPA variant (
US5270198-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                   AAR14486 standard; protein;
Delta (466-470) tPA variant
WO9113149-A.
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Human Factor VII variant pol
WO2005024006-A2.
         AAR70900 standard;
Human t-PA variant
                                                                                  Human t-PA variant
US5385732-A.
                                                                                                        AAR70860 standard;
                                                                                                                                                                     AAR70868 standard;
Human t-PA variant
US5385732-A.
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ry Match 7.3%; Score 286.
t Local Similarity 23.0%; Pred. No.
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Variant human coagulation Factor VII protein #15
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(NOVO ) NOV
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JS5385732-A.
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(N67,N103)
                                                                                                                                                                                  protein; 527 AA. (N67, A432, A434).
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23.2%;
         protein; 527 (N103, A410).
                                                                                            protein; 527 AA (N67, A331, A332)
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23.2%;
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23.2%;
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Score 286.5;
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No. 1.3e-07;
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1.7e-07;
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.8e-07;
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RESULT 1224
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RESULT 1229
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Best Local Similarity
RESULT 1228
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Sequence of tissue
WO8911531-A.
                                                                                                                                                                                                                                                                                                                                                                                                                     AAR09289 standard;
Sequence of tissue
68).
                                                                                                                                                       AAR09270 standard; protein;
t-PA variant H331A, H332A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence encoded activator (tPA).
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                                                                  t-PA variant
WO9002798-A.
                                                                                                                                                                                                                                                                                                                            AAP70880 standard; protein; 527 AA. Thrombolytic proteins 1-9-1-11 having replaced and containing a modified
                                                                                                                                                                                                                                                                                                                                                                                      28-DEC-1989.
(BRBI-) BRIT BIO-TECHN
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T-PA with -ve charged finger and/or kringle domain
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t-PA variant H432A,
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          NDW64349 standard; protein;
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variant i304
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plasminogen a
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in; 527 AA.
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                            285; DB 2;
No. 2e-07;
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No. 1.9e-07;
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No. 2e-07;
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N-linked glyco
                                                                                                         2e-07;
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.8e-07;
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plasminogen

protein -

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Query Match
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RESULT 1240
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RESULT 1236
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RESULT 1233
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RESULT 1239
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RESULT 1237
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Modified human tiss
EP238304-A.
AAR44809 standard;
Human tPA variant
US5270198-A.
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18-MAR-1991.
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T-PA variant contg. fibronectin
                                                                                     AAR70844 standard; protein; 483 AA.
Human tissue PA variant (deltal-44,N67,
                                                                                                                                                         Human tissue
US5385732-A.
                                                                                                                                                                 AAR70851 standard; protein; 483 AA.
Human tissue PA variant (deltal-44,N67,D184,E275,
                                                                                                                                                                                                                            Human diagnostic and WO2004023973-A2. 25-MAR-2004.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (LIBB/) LI B
                                                           (GETH )
                                                                                                                                                  31-JAN-1995.
                                                                                                                                                                                                                  (INCY-) INCYTE CORP.
                                                                                                                                                                                                                                                        ABM82817 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FUJI ) FUJISAWA PHARM CO LTD
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th 7.2%;
Similarity 28.0%;
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tissue plasmi
          (N65, S67)
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(hBSSP5)
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2e-07;
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1.1e-07;
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2.1e-
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                                                483;
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                                                                                                                                                                                                         629;
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Best Local Similarity RESULT 1241
                            Query Match
Best Local Similarity
RESULT 1249
                                                                                                                                                                                           Best Local Similarity RESULT 1247
                                                                                                                                                                                                                                                                          Best Local Similarity RESULT 1246
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Best Local Similarity
RESULT 1245
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                                                                                                            Best Local Similarity RESULT 1248
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAR70859 standard;
Human t-PA variant
US5385732-A.
                                                                                                                                                                                                                                           AAR09286 standard;
Sequence of tissue
WO8912681-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAR70908 standard;
Human t-PA variant
                                                                             ABB80068 standard;
Human coagulation f
WO200183725-A1.
                                                                                                                                                                       AAR23807 standard; protein;
t-PA (Tyr 297) mutant.
                                                                                                                                                                                                                                                                                                                                                                                                                      AAR70891 standard;
Human t-PA variant
US5385732-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human t-PA variant
US5385732-A.
ABG73125 standard;
Human coagulation |
WO200277218-A1.
                                                                                                                                                                                                                                                                                                                                      Sequence of WO8703906-A.
                                                                                                                                                                                                                                                                                                                                               AAP70474 standard; protein; 562 AA. Sequence of tissue plasminogen (TPA)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              31-JAN-1995.
(GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAR70893 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US5385732-A
                                                                      08-NOV-2001
                                                                                                                    (TEXA ) UNIV TEXAS SYSTEM.

ry Match 7.2%;
t Local Similarity 23.2%;
                                                                                                                                                                                                                                                                                                                                                                                                               31-JAN-1995.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (GETH ) GENENTECH
                                                           (NOVO ) NOVO
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(MARO/) MAROTTI
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h 7.2%;
Similarity 23.1%;
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                                     O NORDISK AS.
7.2%;
ilarity 22.7%;
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                                                                                                                                                                                                                                                                                                          ₽.
         protein;
Factor VII
                                                                                        protein; 406 AA. factor VII mutant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            protein; 527 AA.
(N103,A296,A297,
                                                                                                                                                                                                                                                      protein; 562 AA.
plasminogen activator analogue
                                                                                                                                                                                                                                                                                                                                                                                                                                protein; 527 (N103, A267).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               protein; 527 AA. (N67, A303, A304).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              protein; 527 AA. (N103, A477).
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23.7%;
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23.5%;
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23.8%;
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23.4%;
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23.1%;
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23.0%;
        406 AA.
I mutant
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No. 2
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No.
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       polypeptide
                                                                                        L305V/M306D/D309S
                                                                                                                                                                                                                                                                                                                                                analogue
                                      .9e-07;
                                                                                                                                                                                                                                                                                                                                                                                DB 2;
.3e-07;
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.3e-07;
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.4e-07;
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.3e-07;
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.3e-07;
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03-OCT-2002

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RESULT
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RESULT 1253
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                              Query Match
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                             AAR13917 standard; peptide;
Delta (466-470) tPA variant
                                                                                                                                                                                                                                                                                                                                                                                                                               ADE83543 standard; protein; Rat Protein NP_058839, SEQ | WO2003016475-A2.
                                                                    AAR09257 standard; protein;
t-PA variant d1-44, N184D, 1
                                                                                                                                                               ADW20190 standard; protein; 407
Human factor VII (FVII) protein
                                                                                                                                                                                                                                        Tissue plasminogen
WO8907146-A.
                                                                                                                                                                                                                                                            AAP90169 standard;
                                                                                                                                                                                                                                                                                                                           WO9113149-A.
                                                                                                                                                                                                                                                                                                                                     substitutions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (NOVO ) NOVO NORDISK HEALTH CARE AG.

ry Match 7.2%; Score 283.5;
Local Similarity 22.7%; Pred. No. 1.
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Human factor VII mutant L305V/M306D/D309S
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TY Match 7.
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                                         (GETH )
                                                                                                                         (MAXY-) MAXYGEN HOLI
                                                                                                                                                                                                                                                                                                     GETH ) GENENTECH INC.
                                                   22-MAR-1990.
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                                                                                                     Local Similarity
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                                       GENENTECH INC.
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                                                                                                                                                                                                                                                  peptide; 5 activator
                                                                                                                                                                                             rics inc.
7.2%;
22.4%;
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22.8%;
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22.8%;
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22.7%;
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22.2%;
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7
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                                                                  483 AA.
I210R, G211A,
                                                                                                                                                                                                                                                                                                                                                                                                                                          482 AA.
ID NO 11161.
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le mutant
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527
                                                                                                                                                                                                                                                                                                                                            522 AA.
with K296A,
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Pred.
                                                                                                                                                                                             Score
Pred.
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Pred.
                                                                                                    Score
Pred.
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Pred. No. 2.
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Pred. No. 2.
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                  Score 283;
Pred. No. 2
                                                                                                                                                                 variant
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                                                                                                    283; D
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No.
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                                                                                                                                                                sequence
                                                                                                                                                                                                                                                                                                                                             H297A, R298A and R299A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; DB 8;
                                                                                                                                                                                                ; DB 1;
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                   DB 2;
.4e-07;
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e-07;
                                                                     K212R,
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                             483;
                                                                                                               407;
                                                                     T252R,
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RESULT
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Best Local Similarity RESULT 1267
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RESULT 1263
                  Query Match
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Human tPA variant
US5270198-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human tPA variant
                                                                                                                                                                                                          AAR12367 standard; protein; 561 AA.
T-PA with -ve charged finger and/or
                                                                                                                                                                                                                                                                             T-PA variant JP03061482-A.
                                                                                                                                                                                                                                                                                                                                                     AAR70899 standard;
Human t-PA variant
US5385732-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                  AAR44814 standard;
Human tPA variant
US5270198-A.
                                                                                                                       Human corin prot
WO2004111225-A1.
                                                                                                                                                        18-MAR-1991.
(FUJI) FUJISAWA PHARM CO LTD.
7.2%; Score
22.1%; Pred.
                                                                                                                                                                                                                                                                                               AAR12341 standard; protein; 560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAR44810 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            t-PA variant E303A, R304A.
                                                       Factor VII/IX fusion
                                                                                                                                         ADW42867 standard; protein; 925
                                                                                                                                                                                                                                                                                                                                                                                                             (GETH ) GENENTECH INC.
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                                             WO2006018204-A1.
                                                                AEG02852 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (GETH
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                                                                                  Local Similarity
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                                                                                                     SCHERING AG
                          ZLB BEHRING
                                                                                                                                 protein
                                                                                                                                                                                                                                                                                      contg.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      protein;
(N67, A296,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein; 5 (N65, T67).
                                                                                                                                                                                                                                                                                                                                                                                                                                           protein; 527 (N105, T107).
                                                                                                                                                                                                                                                                                                                                                                protein; 527 (N103, A408).
                                                                protein;
                         GMBH.
                                                                                                                                                                                                                                      7.2%;
22.1%;
                                                                                                                               deletion region
                                                                                                                                                                                                                                                                                       fibronectin
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22.9%;
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       7.2%;
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20.5%;
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23.6%;
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23.4%;
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23.1%;
                                                      protein
                                                     436 AA.
n SEQ ID
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, A297, A298, A299)
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No. 2.
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       282.5; DB 1
No. 2.3e-07;
                                                                                  283; DB 9;
No. 4.4e-07;
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No. 2.
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.6e-07;
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.6e-07;
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.6e-07;
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.7e-07;
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BB
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                 Length
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                                                                                                                                                                                                                                                                                       (3)
                                                                                                                                                                                                                                                                                                                                                                                                       527;
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AEG02835 standard; peptide; 436 AA. Factor VII/IX fusion protein SEQ ID NO:29

WO2006018204-A1

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Query Match
Best Local S
RESULT 1275
                                                                                                                                                                                                                                                                                            Query Match
Best Local S
RESULT 1273
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RESULT 1270
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t-PA deletion varia
WO9002798-A.
                                                                                                                                                                    AAR09255 standard; protein; t-PA variant I210R, G211H, WO9002798-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                        AAR09246 standard;
t-PA variant d1-44,
WO9002798-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADW20177 standard; protein; 406 Human factor VII (FVII) protein W02004111242-A1.
                                                                                                                                                                                                                                                                                                                                                          AAR09254 standard; protein; 483 AA.
L-PA variant d1-44, I210R, G211H, K212Q, V213K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AEL92410 standard; protein; 406 AFHuman Factor VII protein variant, WO2006114105-A2.
AAR70866 standard;
Human t-PA variant
                                                                            tPA variant -
WO9202612-A.
                                                                                       AAR21600 standard; protein; 527
tPA variant - E94A, D95A, T103N
                                                                                                                                                                                                                                                                      AAR09230 standard; protein; 525 t-PA deletion variant d297-298.
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7.1%;
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(ZLBB-) ZLB
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                                                                                                                                                                                                                                                                                                                             (GETH ) GENENTECH INC.
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                                                                                                                                             GENENTECH INC.
                                                     GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  dard; protein; 524 AA. variant d297-299.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   protein; 483 /
, N184D, F305H
protein; 527 AA. (N67, A416, A417, A418).
                                7.1%;
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22.8%;
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23.4%;
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23.0%;
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22.8%;
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22.3%;
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22.8%;
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22.1%;
                                                                                                                                                                          ; 527 AA.
K212Q, V213K,
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Pred.
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Pred. No. 2
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Pred.
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Pred. No. 2.3e-07;
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No. 2.7e-07;
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2.3e-07;
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.3e-07;
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.9e-07;
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.9e-07;
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.7e-07;
                                .9e-
                                                                                                                                                                                F305H
                                 -07;
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веят Local Similarity
RESULT 1279
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                      Best Local Similarity
RESULT 1285
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Best Local Similarity
RESULT 1283
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RESULT 1282
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Human t-PA variant (
US5385732-A.
31-JAN-1995.
(GETH ) GENENTECH IN
                                                                                                                                                                                                                                                                                                                                                                                                                                               AAR09287 standard;
Sequence of tissue
WO8912681-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAR70869 standard;
Human t-PA variant
US5385732-A.
                                                                                                                                                                     AAB84869 standard; protein; 406 AA.
Mutant blood coagulant factor VII (FVII-30)
JP2001061479-A.
                                                                                                                                                                                                                                                                          AAR23810 standard; protein;
t-PA (Gly 301) mutant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAP82582 standard;
Tissue plasminogen
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(GETH ) GENENTECH INC.
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(GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                   AAR23808 standard; protein;
t-PA (Glu 298) mutant.
  AAO30584 standard;
Human coagulation !
                                                                                          AAM52185 standard,
Human FVII mutant (
                                                                                                                                                                                                                                      16-APR-1992.
(TEXA) UNIV TEXAS SYSTEM
                                                                                                                                                                                                                                                                 WO9206203-A.
                                                                                                                                                                                                                                                                                                          (TEXA) UNIV TEXAS SYSTEM.

ry Match 7.1%;
t Local Similarity 23.5%;
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protein; 406 AA.
factor VII variant (S314E/L305V/V158D/K337A/M298Q).
                                                                                           G291N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein; 52 (N67, A440).
                                                                                                                                                                                                                                                                                                                                                                                                                                                        protein; 562 AA.
plasminogen activator
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             protein; 562 AA. activator with S-119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             protein; 527 AA.
(N103, A426, A427, A429, A430)
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7.1%;
22.8%;
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23.2%;
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23.4%;
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22.8%;
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; Score 281.5; DB 4
; Pred. No. 2.4e-07;
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No. 2.
                                    281.5;
No. 2.4
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No. 3
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No. 3.1e-07;
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No. 3.1e-07;
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No. 2.9e-07;
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No. 3.1e-07;
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                                    ; DB 4;
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.9e-07;
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.9e-07;
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Best Local Similarity
RESULT 1294
ID ADJ55970 standard; p
DE Human factor VII pol
PN WO2004000366-A1.
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Best Local
RESULT 1289
                                                                                                                                                                                          Best Local Similarity RESULT 1292
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RESULT 1288
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                                                                                                                                                                                                                                                                                                                   Human coagulation factor VII W02003037932-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAO30616 standard;
Human coagulation:
WO2003037932-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAO30582 standard;
Human coagulation
WO2003037932-A2.
                                                                                                                                                          ADJ55927 standard; protein; Human factor VII polypeptide WO2004000366-A1.
                                                                                                                                                                                                                                                                                                                                                                                                         Human coagulation WO2003037932-A2.
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                                                                                    ADJ55915 standard; protein; 4
                                                                                                                                                                                                                                          ADJ55926 standard; protein; 4
Human factor VII polypeptide
WO2004000366-A1.
        ADJ55970 standard;
Human factor VII po
                                                                             WO2004000366-A1.
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ry Match 7.1%;
t Local Similarity 22.5%;
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                                                        NOVO NORDISK
         polypeptide
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No. 2.4
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No. 2.4e-07;
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No.
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No.
                                     281.5; DB 8;
No. 2.4e-07;
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No.
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No.
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         V158T/ M298Q/
                                                                                       M298Q/ L305V/
                                                                                                                                                                     V158D/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (K316Q/L305V/V158T/K337A/M298Q)
                                                                                                                                                                                                                                                                                                                                    (K316Q/L305V/V158D/K337A/M298Q).
                                                                                                                                                                                                                                                                                                                                                                                                                   (S314E/L305V/K337A/M298Q)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (K316Q/L305V/K337A/M298Q)
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2.4e-07;
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.4e-07;
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        L305V/
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         K316Q/
                                                                                       . K337A
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                                                                                                                                                                                                                                                    S314E/
         K337A.
                                                                                                                                                                     K337A
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Query Match
Best Local Similarity
RESULT 1295
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RESULT 1301
                    Best Local Similarity RESULT 1303
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Best Local Similarity
RESULT 1302
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RESULT 1298
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(NOVO ) NOV
                                                                   Human factor VI: WO2004029091-A2 08-APR-2004.
                                                                                                                                                                                ADO10585 standard; protein; Human factor VII/VIIa prote
                                                                                                                                                                                                                                                                                                                                    ADJ56033 standard;
Human factor VII po
WO2004000366-A1.
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TY Match 7.1%;
t Local Similarity 22.5%;
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Human factor VII po
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Human factor VII protein mutant
                                                                                     ADO10626 standard; protein; 406 AA.
Human factor VII/VIIa protein mutant
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Human factor VII po
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ry Match 7.1%;
t Local Similarity 22.5%;
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7.
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(MAXY-) MAXYGEN HOLDINGS
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MAXY-) MAXYGEN HOLDINGS LTD.
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d; protein; 406 AA
G237L mutant.
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F374Y/ V158D/ M298Q/
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No. 2.4e-07;
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2.4e-07;
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2.4e-07;
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2.4e-07;
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.4e-07;
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Best Loca.
Best Loca.
RESULT 1310
ID ADV446
DE Humar
PN WO2
PD 27
PA PA
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Best Loc.
RESULT 1305
ID ADV4477
DE Humar
PN WO2
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PD 2'
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RESULT 1312
ID ADV44704
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RESULT 1311
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RESULT 1306
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Human factor VII mutant S314E/L305V/V158T/K337A/M298Q.
W02004110469-A2.
23-DEC-2004.
(NOVO ) NOVO NORDISK AS.
(NOVO ) NOVO NORDISK AS.
27.1%; Score 281.5; DB 9; Lengery Match
7.1%; Score 281.5; DB 9; Lengery Match
7.1%; Score 281.5; DB 9; Lengery Match
7.1%; Score 281.5; DB 9; Lengery Match
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Human factor VII mutant F374Y/V158D/M298QV/S314E/K337A/L305V.
WQ2004110469-A2.
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Human factor VII mutant K316Q/L305V/V158T/K337A/M298Q.
WO2004110469-A2.
23-DEC-2004.
(NOVO ) NOVO NORDISK AS.
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Human factor VII mutant
WO2004110469-A2.
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Human factor VII mutant S314E/L305V/V158D/K337A/M298Q
WO2004110469-A2.
23-DEC-2004.
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ADV44704 standard; protein; 406 AA.
Human factor VII mutant F374Y/V158T/S314E/M298Q/K337A/L305V.
                                                                             ADV44556 standard; protein; 406 AA.
Human factor VII mutant S314E/L305V/K337A/M298Q
W02004110469-A2.
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Human factor VII mu
WO2004110469-A2.
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Human factor VII mutant K316Q/L305V/V158D/K337A/M298Q.
WO2004110469-A2.
23-DEC-2004.
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ry Match 7.1%;
t Local Similarity 22.5%;
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Similarity 22.8%;
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mutant F374Y/L305V/M298Q/K337A/S314E
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2.4e-07;
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.4e-07;
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.4e-07;
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Best Local Similarity
RESULT 1313
ID ADV44600 stand
DE Human far'
PN WO20"
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RESULT 1314
ID ADY/4145 standard; protein; 40
DE Human Factor VII variant PN WOJ005024006-A2.
PD 17-MAR-2007
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Best Local
RESULT 1316
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RESULT 1320
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RESULT 1318
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RESULT 1317
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23-DEC-2004.
(NOVO ) NOVO NORI
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(NOVO ) NOVO NORDISK HEALTH CARE AG.
(NOVO ) NOVO NORDISK HEALTH CARE AG.
7.1%; Score 281.5; DB 9;
22.5%; Pred. No. 2.4e-07;
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Human factor VII mutant K316Q/L305V/K337A/M298Q.
WO2004110469-A2.
                                                                                                                                                                                                                                                                                                                                                             ADY74262 standard;
Human Factor VII ve
WO2005024006-A2.
                                                                                      ADY74308 standard; protein; 406 AA. Human Factor VII variant polypeptide WO2005024006-A2.
ADY74201 standard;
Human Factor VII ve
WO2005024006-A2.
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17-MAR-2005.
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Human Factor VII variant polypeptide
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ry Match 7.1%; Score
t Local Similarity 22.5%; Pred.
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Similarity 22.5%;
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polypeptide
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Score 281.5; DB 9
Pred. No. 2.4e-07;
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2.4e-07;
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                                             2.4e-07;
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.4e-07;
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Query
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RESULT 1
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RESULT 1322
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(NOVO) NOVO NORDISK HEALTH CARE AG.
7.1%; Score 281.5;
ery Match 2: " cimilarity 22.5%; Pred. No. 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Variant human coagulation Factor VII WO2005123916-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                   Variant human coagulation Factor VII protein #41 W02005123916-A2.
Variant human co
WO2005123916-A2.
                                                                                                                      AEF15124 standard; protein; 406 AA.
Variant human coagulation Factor VII
                                                                                                                                                                                                                                                                                                                             Variant human coagulation WO2005123916-A2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AEF15122 standard; protein; 406 AA. Variant human coagulation Factor VII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADY74199 standard;
Human Factor VII va
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ry Match 7.1%; Score 281.5;
L Local Similarity 22.5%; Pred. No. 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADY74157 standard; protein;
Human Factor VII variant po:
                         AEF15157 standard;
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                                                                                                                                                                                                                                                                                                                                                        AEF15160 standard;
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                                                                                                                                                                                                                                               NEF15083 standard;
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                                                 (NOVO ) NOVO NORDISK HEALTH CARE AG.

Y Match 7.1%; Score 281.
Local Similarity 22.5%; Pred. No.
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7.1%;
Similarity 22.5%;
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th 7.1%; Score 281.
Similarity 22.5%; Pred. No.
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h
7.1%; Score 281.5; DB 10;
Similarity 22.5%; Pred. No. 2.4e-07;
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h 7.1%; Score 2
Similarity 22.5%; Pred. N
                                                                                                                                                                                                                                dard; protein; 406 AA. coagulation Factor VII
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ariant polypeptide
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polypeptide
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            Factor
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; Pred. N
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; Score 281.5;
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Pred. No. 2.
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            VII
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No.
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           protein #126
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2.4e-07;
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Best Local Similarity RESULT 1331
                                           Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (NOVO)
                                                                                                                                                                 AAR70855 standard; protein; 483 AA.
Human tissue PA variant (deltal-44,N67,K210,E275,
                                                                                                                                                                                                                                        t-PA variant
WO9002798-A.
                                                                                                                                                                                                                                                                                                                                                                                                                            AAR12366 standard; protein; 562 AA.
T-PA with -ve charged finger and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAR09233 standard;
  AAR70848 standard; protein;
Human tissue PA variant (del
                                                                                                                                                        Human tissue
US5385732-A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              t-PA deletion
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               substitutions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Delta (466-470)
                                                                          JS5385732-A
                                                                                 AAR70845 standard; protein; 483 AA.
Human tissue PA variant (deltal-44,N67,S184,E275)
                                                                                                                                                                                                                   22-MAR-1990
(GETH ) GENE
                                                                                                                                                                                                                                                                                                                                                      ADW20189 standard;
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                                                      (GETH )
                                                                                                                                                                                                                                                                                                    (MAXY-) MAXYGEN HOLDINGS LTD (MAXY-) MAXYGEN APS.
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h 7.1%; Score 281.
Similarity 22.5%; Pred. No.
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h 7.1%; Score
Similarity 21.9%; Pred.
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A variant
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ant d297-301.
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23.3%;
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23.4%;
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23.2%;
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23.2%;
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22.2%;
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23.2%;
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22.7%;
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in; 483 AA.
(delta1-44,N67,R252,E275).
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with E426A,
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No. :
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No. 3
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No. 3e-07;
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3e-07;
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2.4e-07;
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3e-07;
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3.1e-07;
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                                                                                                                                                                                                                                                                                                                                             sequence
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Query Match
Best Local Similarity
RESULT 1340
                                    Best Local Similarity RESULT 1348
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Best Local Similarity
RESULT 1346
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Best Local Similarity
RESULT 1345
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Best Local Similarity
RESULT 1344
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RESULT 1341
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       AAR70853 standard; protein; 483 AA.
Human tissue PA variant (deltal-44,N67,R210,A211,R212,R213,E275,I277).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human tissue
US5385732-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAR70854 standard; protein; 483 AA.
Human tissue PA variant (deltal-44,N67,R252,E275,
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Human tissue PA variant (delta1-44,N67,
Human tissue
US5385732-A.
                                                                                                Human tissue
US5385732-A.
                                                                                                                                                                                                                                                                                                      Human tissue
US5385732-A.
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Human tissue PA variant (deltal-44,N67,E275,I277)
                                                                                                                                                                                                                                                                                                                                                                                                       Human tissue
US5385732-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAR70846 standard; protein; 483 AA.
Human tissue PA variant (deltal-44,N67,K213,E275)
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US5385732-A.
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Human tissue PA variant (deltal-44,N67,E275).
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US5385732-A.
                                                                                                                         AAR70847 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                 AAR79144 standard; protein;
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                                                                                                                                                                                                                 Human tissue
                                                                                                                                                                                                                             AAR70852 standard;
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PA variant (de
                                                                                                                                                                                                                                                                                                                                                                                                                  PA variant
                                                                                                         rd; protein; 483 AA. variant (delta1-44,N67,R210,A211,R212,R213,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7.1%;
23.2%;
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23.2%;
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23.2%;
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23.0%;
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No. 3
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No. 3
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No. 3e-07;
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No. 3e-07;
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No. 3e-07;
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No. 3e-07;
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No. 3e-07;
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No. 3e-07;
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3e-07;
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Best Local Similarity RESULT 1349
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RESULT 1352
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                                   Query Match
Best Local Similarity
RESULT 1357
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Best Local Similarity
RESULT 1356
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RESULT 1353
ID AAB70411 standard;
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AAR09279 standard; I
t-PA variant R440A.
WO9002798-A.
22-MAR-1990.
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t-PA deletion variant d300-301.
WO9002798-A.
                                                                                                                                                                                                                                                                                                 Luman factor X protein sequence W0200110896-A2.
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Human Factor X prot
WO9838318-A1.
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Human Factor X protein
WO9838317-A1.
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Human Factor X protein.
W09838317-A1.
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t-PA variant K416A, H417A, 1
                                                                                t-PA variant
WO9002798-A.
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Serine protease for fusion p
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                                                                         22-MAR-1990
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(IMMO ) IMMUNO AG.
                                                                (GETH )
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Query Match
Best Local Similarity
RESULT 1358
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RESULT 1366
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                                                                                                                                                           Query, Match
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                                                                                                                                                                           Wild type tissue US5385732-A. 31-JAN-1995.
                                                                                                                                                                                                                                                                                                                                          Human t-PA variant US5385732-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAR70875 standard;
Human t-PA variant
                       T-PA with -ve charged finger and/or JP03061483-A.
                                                                                                  T-PA with -ve charged finger JP03061483-A.
                                                                                                                                                                                             AAR70842 standard; protein; !
Wild type tissue plasminogen
                                                                                                                                                                                                                                                                         AAR70872 standard; protein; 527 AA.
Human t-PA variant (N67,A460,A462).
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1991.
FUJISAWA PHARM CO LTD.
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             FUJISAWA
PHARM CO LTD.
7.1%; Score
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and/or
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Best Local Similarity
RESULT 1367
ID AAP80691 standard; p
DE Hybrid plasminogen/t
PN EP292326-A.
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                                                          Best Local Similarity RESULT 1375
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23-NOV-1988.
(BEEC) BEECHAM GROUP PLC.
7.1%;
21Y Match 7:milarity 22.3%;
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Human coagulation;
WO2003037932-A2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAP80691 standard; protein; 1087 Hybrid plasminogen/t-PA compound
                           Human coagulation WO2003037932-A2.
                                               AAO30606 standard;
                                                                                                                          Human coagulation
                                                                                                                                                                       (NOVO ) NOVO NORDISK AS
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                                                                                       08-MAY-2003.
(NOVO ) NOVO NORDISK AS.
                                                                                                                                     AAO30569 standard;
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                                                                                                                 VO2003037932-A2.
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      NOVO NORDISK
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factor VII var
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factor VII variant (S314E/L305V/M298Q)
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variant (K316H/L305V/V158T/K337A/M298Q)
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                                      (K316H/L305V/V158D/K337A/M298Q)
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7.1%; 22.5%;

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280.5; DB 6 No. 2.8e-07;

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WO2004000366-A1.
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Human coagulation i
WO2003037932-A2.
                                ADJ55948 standard;
Human factor VII po
WO2004000366-A1.
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ry Match 7.1%;
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WO2004000366-A1.
31-DEC-2003.
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Human factor VII polypeptide
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Human factor VII polypeptide
WO2004000366-A1.
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08-MAY-2003.
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31-DEC-2003.
(NOVO ) NOVO NORDISK AS.
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Human factor VII po
WO2004000366-A1.
                                     ADJ56056 standard;
Human factor VII pc
WO2004000366-A1.
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Human factor VII polypeptide
WO2004000366-A1.
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Human factor VII polypeptide mutant V158D/ M298Q/
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WO2004000366-A1.
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standard; protein;

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Human factor VII mutant L305V/M298Q/K337A/V158D.
W02004110469-A2.
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Human factor VII pc
WO2004000366-A1.
(NOVO ) NOVO NORDISK AS.

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Human factor VII mutant S314E/L305V/M298Q
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Human factor VII/VIIa prote:
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                                     ADV44588 standard; protein; 406 AA.
Human factor VII mutant K316H/L305V/V158T/K337A/M298Q.
WO2004110469-A2.
23-DEC-2004.
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ry Match 7.1%;
t Local Similarity 22.5%;
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Best Local Similarity RESULT 1409
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                                            ADV44684 standard; protein; 406 AA. Human factor VII mutant F374Y/L305V/V158D/K337A/M298Q W02004110469-A2.
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Human factor VII m
WO2004110469-A2.
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Human factor VII m
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Human factor VII mutant F374Y/L305V/V158D/S314E/M298Q.
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Human factor VII mutant F374Y/V158T/L305V/K337A/M298Q
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WO2004110469-A2.
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VII mutant F374Y/L305V/M298Q/S314E
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mutant L305V/M298Q/K337A/V158T
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ADV44561 standard;

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Query Match
Best Local Similarity
RESULT 1416
ID ADV44603 standard; I
DE Human factor VII mut
PN W02004110469-A2.
PD 23-DEC-2004.
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Human factor VII mutant F374
WO2004110469-A2.
23-DEC-2004.
                           ADY74285 standard; protein; 406 AA. Human Factor VII variant polypeptide WOZ00504206-A2.
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WO2004110469-A2.
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17-MAR-2005.
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ry Match 7.1%;
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Human factor VII (FVII) protein variant
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Human Factor VII variant pol
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Human Factor VII variant pol
WO2005024006-A2
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Human Factor VII variant pol
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                                                             ADY74103 standard; protein; 406 AA.
Human Factor VII variant polypeptide
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17-MAR-2005.
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Human Factor VII variant polypeptide
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.8e-07;
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.8e-07;
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.8e-07;
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protein;

406 AA

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RESULT
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                                                                                                                                                                                                                                                                            Best Local Similarity RESULT 1437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADY74192 standard; protein; Human Factor VII variant pol WO2005024006-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADY74234 standard; protein; 406 AA. Human Factor VII variant polypeptide WO2005024006-A2.
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                                                                                                                                                   17-MAR-2005.

(NOVO ) NOVO NORDISK HEALTH CARE AG.

ry Match 7.1%; Score 280.5; DB 9;

ry Match 22.5%; Pred. No. 2.8e-07;
                                                                                                                                                                                                                                             ADY74167 standard; protein;
Human Factor VII variant pol
                                                                                                               Variant human coagulation WO2005123916-A2.
                                                                                                                          AEF15119 standard; protein; 406 AA. Variant human coagulation Factor VII
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                                                                                                                                                                                                                                                                                                                                                           ADY74244 standard; protein;
Human Factor VII variant po
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Human Factor VII variant
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ry Match
7.1%; Score 280.5;
t Local Similarity 22.5%; Pred. No. 2.6
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ry Match 7.1%;
t Local Similarity 22.5%;
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Human Factor VII v
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7.1%; Score 280.5;
h 7.1%; Pred. No. 2.6
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7.1%;
Similarity 22.5%;
                                                   NOVO NORDISK HEALTH CARE AG.

h 7.1%; Score 280.5;
Similarity 22.5%; Pred. No. 2.
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h 7.1%; Score 280.5;
Similarity 22.5%; Pred. No. 2.6
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7.1%;
Similarity 22.5%;
            lard; protein; 406 )
coagulation Factor
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polypeptide
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polypeptide
                                                                                                                                                                                                                                                                                                                                                            in; 406 AA.
polypeptide
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$; Score 280.5; DB 9;

$ pred. No. 2.8e-07;
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; Score 280.5;
; Pred. No. 2.8
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Score 280.5; DB 9;
Pred. No. 2.8e-07;
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Score 280.5; DB 9;
Pred. No. 2.8e-07;
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AA.
r VII protein #58
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                                                    ; DB 10;
.8e-07;
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.8e-07;
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.8e-07;
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Best Loca
RESULT 1448
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RESULT 1447
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RESULT 1446
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RESULT 1442
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                                                                                                                AEF15144 standard; protein; 406 AA.
Variant human coagulation Factor VII protein #113
                                                                                                                                                                                                                    Variant human coagulation WO2005123916-A2.
                                                                                                                                                                                                                                                                 29-DEC-2005.

(NOVO ) NOVO NORDISK HEALTH CARE AG.

TY Match

Total Similarity 22.5%; Pred. 1
                                                                                                                                                                                                                                                                                                                                                  AEF15077 standard; protein; 406 AA. Variant human coagulation Factor VII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AEF15136 standard; protein; 406 AA. Variant human coagulation Factor VII
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Variant human coagulation Factor VII protein #68
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                                        (NOVO) NOVO NORDISK HEALTH CARE AG

ry Match 7.1%; Score:

t Local Similarity 22.5%; Pred. 1
                                                                                                                                                                                                                                                AEF15086 standard;
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ry Match 7.1%; Score 280.5;
t Local Similarity 22.5%; Pred. No. 2.
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ry Match 7.1%; Score 280.
L Local Similarity 22.5%; Pred. No.
               ADW20193 standard;
                                                                                                                                                                          (NOVO) NOVO NORDISK HEALTH
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CY Match 7.1%; Score 280.

Local Similarity 22.5%; Pred. No.
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TY Match 7.1%; Score 280.

Local Similarity 22.5%; Pred. No.
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ry Match
Local Similarity 22.5%; Pred. N
                                                                                                                                                            Local Similarity
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   ; protein; (FVII) pro
                                                                                                                                                                                                                                protein; 406 AA.
ılation Factor VII
                                                                                                                                                            22.5%;
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ein; 407 AA.
protein variant
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; Score 280.
; Pred. No.
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Pred. No.
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                                                                                                                                                                                                                                                                            280.5;
No. 2.8
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                                                          280.
                                                                                                                                                                                                                                 protein #55
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                                           .5; DB 10;
2.8e-07;
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2.8e-07;
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.8e-07;
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.8e-07;
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.8e-07;
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.8e-07;
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.8e-07;
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.8e-07;
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.8e-07;
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sequence

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Best Local
RESULT 1456
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RESULT 1454
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RESULT
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Best Local Similarity
RESULT 1455
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Best L
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26-JUN-2003.
(ELIL ) LILLY & CO ELI.
7.1%; (
MARICH 'TOYIEY 21.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (MAXY-) MAXYGEN
(MAXY-) MAXYGEN
                                                                                                           ADW20188 standard; protein; 407
Human factor VII (FVII) protein
W02004111242-A1.
23-DEC-2004.
(MAXY-) MAXYGEN HOLDINGS LTD.
(MAXY-) MAXYGEN APS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAP70020 standard;
Sequence of tissue
EP242836-A.
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t-PA deletion variant d297.
W09002798 A.
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                                                                                                                                                                                                                                                                                                              ABR62451 standard; protein; 635 Bovine recombinant prothrombin, WO2003052059-A2.
                                                                                                                                                                                                                               ADW20176 standard;
Human factor VII (I
WO2004111242-A1.
                                                                                                                                                                                                                                                                                                                                                                                                      ABR62449 standard;
Bovine recombinant
                                                                                                                                                                                                    (MAXY-) MAXYGEN HOLDINGS LTD. (MAXY-) MAXYGEN APS.
                                                                                                                                                                                                                                                                                                                                                                                             WO2003052059-A2.
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ry Match 7.1%;
t Local Similarity 21.7%;
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                                                                    AAR37402 standard;
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1453
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SCRIPPS F
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 Similarity
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(FVII) protein
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7.1%;
7 21.9%;
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plasminogen activator
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23.1%;
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                                                                    protein;
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22.1%;
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22.6%;
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22.6%;
7.1%;
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No.
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No. 2.
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No. 2.
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No. 3.7e-07;
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No. 2.8e-07;
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No. 2.8e-07;
280; DB 2;
No. 3.2e-07;
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. 3.9e-07;
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RESULT 1459
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RESULT 1464
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RESULT 1462
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T-PA deriv. (V).
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(UNIW ) UNIV WASHINGTON.
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                                          AAR13912 standard;
T-PA deriv. (III).
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t-PA variant D460A, R462A.
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t-PA variant D283A, H287A.
                                                                                                                                                                                                                                                                                                                                                                                                           tPA024 precursor
EP373896-A.
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Modified FVII-UAA-GPI casset
                                  EP445464-A
                                                                                                         EP445464-A
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Best Local Similarity RESULT 1472
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                                                                                                               t-PA analogue
JP03285680-A.
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JP03285680-A.
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L6-DEC-1991.

(SUMU ) SUMITOMO SEIYAKU KK.

(SUMU ) 7.1%;

7.1%;

7.1%;

23.0%;
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t-PA analogue expressed by p
                                             AAR44811 standard; protein;
Human tPA variant N67.
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pCDM8-018.
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Best Local Similarity RESULT 1476
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Single chain form WO9802454-A2.
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W09821320-A2.
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US5385732-A.
                                                                                                                                                                           Alteplase protein WO2003099862-A1.
                                   Human diagnostic WO2004023973-A2.
                                                                                                               Recombinant
                                                                                                                         AED66381 standard;
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WO200243747-A2.
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(BOEH ) BOEHRINGER INGELHEIM
                                                                                     (BIOB-) BIOBUD CO LTD.
                                                                                                                                       (NANO-) APPLIED NANOSYSTEMS 7.1%; c Local Similarity 23.0%;
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t-PA variant
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plasminogen activator
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and therapeutic
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sequence.
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of the intact t-PA
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July (GL July )

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RESULT 1489
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                                          AAP80655 standard; |
Tissue plasminogen |
EP293934-A.
07-DEC-1988.
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Sequence of modified human
FR2581652-A.
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T-PA variant contg.
JP03061482-A.
                                                                                                           Tissue plasinogen WO8800242-A. 14-JAN-1988.
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Sequence of active
EP178105-A.
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EP143081-A.
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T-PA variant contg.
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Human diagnostic and therapeutic pprotein
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Sequence of human K
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7.19
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RESULT 1496
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Sequence of tissue plasminogen
with altered residues 419 and 4
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(KABI ) KABIGEN
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Sequence of tissue plasminogen a
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EP379890-A.
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Novel tissue plasminogen activator
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Sequence of tissue
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JP01174388-A.
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                                             Native tissue EP351246-A.
                                                               AAR04699 standard; protein;
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2: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

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US-111-103-195-38
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4. Appli		6 US-10-970-823-4	379		107	1480
5237. Ap		6 US-10-405-02	372	2.7	107	1478
1751 An	D (US-11-218-141-175	4544		107.5	1477
5 Appli	Sequence	US-10-530-393-5	54		107.5	1476
		US-10-669-920-	4		107.5	1475
10 Appl		6 US-10-530-393-1	4464		107.5	1474
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107, App	Sequence	US-11-538-566-	3014		107.5	1466
1019, Ap	Sequence :	US-10-529-348-	2000	•	107.5	1465
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398,	equence	US-10-405-027-3	448	2.7	108	1459
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